## Gene Screen

The invention relates to a screen for the identification of the invention in response to carbon source utilisation.

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Colorectal cancer is a cancer which occurs in the large intestine and rectum. The colon can be divided into effectively four sections; the ascending colon; the transverse colon; the descending colon; and the sigmoid colon. Most colorectal cancers arise in the sigmoid colon and develop from "polyps" which can grow for several years before becoming cancerous. The early detection of these pre-cancerous growths is obviously desirable since removal of the polyps is a very effective means to stem the progress of disease.

There are various types of colorectal cancer. Most cancers of this type are adenocarcinomas which are malignant growths which begin in the epithelial cells which line the colon and rectum. Other cancers of the colon and rectum include gastrointestinal stromal tumours and lymphomas. In some examples the patient can be asymptomatic and for this reason it is important that screening is undertaken to identify those patients in which pre-cancerous polyps are forming. However, some patients do present with symptoms and these include rectal bleeding, diarrhoea, constipation, abdominal pain, and general weakness.

As mentioned above, regular screening is by far the most effective way of controlling this disease since removal of pre-cancerous polyps by surgery can effectively cure any disease before it is initiated. Currently, diagnostic tests include the use of colonoscopy, which allows a doctor to examine the rectum and colon; faecal blood analysis to check for any bleeding from the bowel and rectal area although this test is not directly diagnostic for cancerous lesion in its own right; and sigmoidoscopy which is similar to colonoscopy but only investigates the lower bowel area. Typically, patients with a family history of colorectal cancer can be expected to have

a colonoscopy every 5 years or so and a blood stool check on a yearly basis from about the age of 40.

The treatment of colorectal cancer usually involves invasive surgery to remove polyps and/or malignant growths. If the cancer has developed beyond the polyp stage then more extensive surgery is required which can result in removal of part of the bowel and surrounding lymph nodes. In the situation where a cancer necessitates extensive surgery a colostomy stoma may be required, at least for a period, to allow the bowel to recover from surgery. Surgery in the rectal region is more complicated and is largely dependent on how far the disease has progressed. In some cases the surgery can damage nerves which control sexual and urinary functions. In advanced stage colorectal cancers metastatic lesions may require removal and in about 15% of cases the lesions are in the liver which requires removal of large parts of the liver. The surgical removal of polyps and/or cancerous growths leads to a good prognosis for patients. In some cases surgery is followed by a course of chemotherapy (for colon cancer) and chemotherapy and radiation therapy (rectal cancer) to remove any cancer cells not detected during surgery. The chemotherapeutic agents typically used to treat colorectal cancer include 5-fluorouracil, leucovorin, irinotecan and capecitabine.

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It is apparent that the early detection of cells which are pre-cancerous is highly desirable since in most cases surgery to remove these cells results in a very good prognosis for patients. Diagnostic tests which use the detection of cancer markers as an early indicator of cancer are known in the art.

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For example, EP1355149 describes gene expression profiles from colorectal samples to provide a "finger print" expression profile as an indication of whether a patient is susceptible to the development of colorectal cancer or indeed if malignant growth has already been initiated. The disclosure in EP1355149 is directed to the use of microarrays to compare transformed and non-transformed tissue gene expression in a global sense.

WO02/059609 also describes a gene screen which utilises expression profiles in breast and colorectal cancer. A comparison is made between "normal" and "abnormal" samples in patients to provide a global picture of gene expression in these samples as an indicator of particular genes which are either over-expressed or abrogated between samples. Both EP1355149 and WO02/059609 take a shot gun approach to screening for target genes which can be used either as a diagnostic tool or as a target for the development of new chemotherapeutic agents.

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The present invention provides a targeted screen for genes the expression of which may be altered in a response to carbon source. The invention makes use of the differences in expression profiles between normal and diseased tissue as a consequence of differences in metabolic state between cancer cells and normal cells due in part to carbon source utilisation by these respective cell types. The epithelial cells which line the colon and rectum metabolise butyrate as a carbon source for energy transduction via glycolysis. The main carbon source utilised by tumour cells is glucose. Consequently, expression profiles between these cell types are different due to the differences in carbon source metabolism.

We have identified a large number of potential markers of colorectal cancer which have utility with respect to the early diagnosis of disease and as targets for the development of novel chemotherapeutic agents. Moreover, this assay has broader applicability to conditions resulting from dysfunction of the bowel (e.g colitis, ulcerative colitis, diversion colitis. Crohn's disease and irritable bowel syndrome. In addition the assay provides a screening tool for fibre consumption and as an assay for colon microflora functionality (the effectiveness of fermentation of specific fibres).

According to an aspect of the invention there is provided a method to screen for nucleic acid molecules which show altered expression in an isolated first cell sample comprising comparing the gene expression profiles between said first cell sample with a second reference cell sample wherein said first cell sample has been grown in

the presence of the carbon source butyrate, or a related carbon source from which butyrate is derived, either directly or indirectly, and comparing said expression profile with the expression profile in said second reference cell sample which has not been grown in the presence of butyrate, or said related carbon source.

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According to a further aspect of the invention there is provided a method to screen for nucleic acid molecules which show altered expression in an isolated biological sample comprising the steps of:

i) providing

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- a) a cell growth preparation comprising a first cell sample derived from at least one region of the colon; cell growth media; and a carbon source wherein said carbon source is butyrate; and
- a cell growth preparation comprising a second cell sample derived from an equivalent region of the colon; cell growth media; and a carbon source which is not butyrate;

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- ii) extracting nucleic acid from said first and second cell samples; and
- iii) comparing the gene expression profile in said first cell sample with the gene expression profile in said second cell sample.

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In a preferred method of the invention said first and second cell samples are derived from the ascending colon.

In an alternative preferred method of the invention said first and second cell samples are derived from the transverse colon.

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In a further preferred method of the invention said first and second samples are derived from the descending colon.

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In a still further preferred method of the invention said first and second samples are derived from the sigmoid region of the colon. Preferably said cell samples are derived from the rectal region of the colon.

In a further preferred method of the invention said first and second cell samples comprise epithelial cells.

In a preferred method of the invention said carbon source which is not butyrate is glucose.

In a still further preferred method of the invention said nucleic acid molecule which shows altered expression is selected from the group as represented by the nucleic acid sequences shown in Table 1, or nucleic acid molecules which hybridise to the sequences presented Table 1. Preferably said nucleic acid molecules hybridise under stringent hybridisation conditions.

According to a further aspect of the invention there is provided a method for the detection of at least one nucleic acid molecule associated with the initiation and/or progression of colorectal cancer, in an animal, comprising the steps of:

- i) providing a biological sample comprising at least one cell to be tested:
- ii) contacting said sample with a ligand which binds at least one nucleic acid molecule as represented by the nucleic acid sequence selected from the group consisting of:
  - a nucleic acid molecule as represented by the nucleic
     acid sequence as shown in Table 1;
  - b) a nucleic acid molecule which hybridises to nucleic acid molecules as defined in (a);
  - c) a nucleic acid molecule that is degenerate as a consequence of the genetic code to the nucleic acid molecule represented in (a) and (b);
- iii) detecting the presence of at least one nucleic acid molecule in said sample.

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In a preferred method of the invention said animal is human.

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In a further preferred method of the invention said colorectal cancer is adenocarcinoma.

In a preferred method of the invention said ligand is a nucleic acid molecule adapted to anneal to said nucleic acid molecule which is indicative of colorectal cancer.

- It will be apparent to the skilled person that a number of nucleic acid based assay systems are available which can be adapted to detect nucleic acid molecules as hereindisclosed. For example quantitative polymerase chain reaction assays, in situ hybridisation, northern blots.
- According to a further aspect of the invention there is provided a method for the detection of at least one polypeptide associated with the initiation and/or progression of colorectal cancer, in an animal, comprising the steps of:
  - i) providing a biological sample comprising at least one cell to be tested;
  - ii) contacting said sample with at least one ligand which ligand specifically binds at least one polypeptide encoded by a nucleic acid molecule as represented by the nucleic acid sequence shown in Table 1, or a variant polypeptide comprising an amino acid sequence which varies by the addition, deletion or substitution of at least one amino acid residue; and
    - iii) detecting the presence of at least one polypeptide in said sample.

In a preferred method of the invention said animal is human.

In a further preferred embodiment of the invention said ligand is an antibody, preferably a monoclonal antibody, or at least the effective binding part thereof.

Methods which utilise antibodies to detect the presence of a polypeptide in a biological sample are well known in the art and include ELISA's, western blot and immunofluoresence.

According to a further aspect of the invention there is provided the use of at least one polypeptide, or variant sequence thereof, encoded by a nucleic acid molecule(s) as represented by the nucleic acid sequences as shown in Table 1, as a target for the screening of agents which modulate the activity of said polypeptide.

According to a yet further aspect of the invention there is provided a method to screen for agents, which modulate the activity of at least one gene associated with the initiation and/or progression of colorectal cancer comprising the steps of:

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- i) forming a preparation comprising at least one polypeptide wherein said polypeptide is encoded by a nucleic acid molecule as represented by the nucleic acid sequence as shown in Table 1, or a variant polypeptide comprising an amino acid sequence which varies by the addition, deletion or substitution of at least one amino acid residue as represented by the amino acid sequences shown in Table 1, and at least one agent to be tested; and
- ii) determining the activity of said agent with respect to activity of said polypeptide.

In a preferred method of the invention said polypeptide is expressed by a cell wherein said cell is transformed or transfected with said nucleic acid molecule. Preferably said nucleic acid molecule is part of a vector adapted for recombinant expression of said nucleic acid molecule. Preferably said vector is provided with a promoter which enables the expression of said nucleic acid molecule to be regulated.

In a preferred method of the invention said cell is derived from the colon, preferably said cell is an epithelial cell which lines said colon.

In a further preferred method of the invention said agent is an antibody, preferably a monoclonal antibody or modified antibody, or at least the effective binding part thereof.

Antibodies, also known as immunoglobulins, are protein molecules which usually have specificity for foreign molecules (antigens). Immunoglobulins (Ig) are a class of structurally related proteins consisting of two pairs of polypeptide chains, one pair of light (L) (low molecular weight) chain (κ or λ), and one pair of heavy (H) chains (γ, α, μ, δ and ε), all four linked together by disulphide bonds. Both H and L chains have regions that contribute to the binding of antigen and that are highly variable from one Ig molecule to another. In addition, H and L chains contain regions that are non-variable or constant.

The L chains consist of two domains. The carboxy-terminal domain is essentially identical among L chains of a given type and is referred to as the "constant" (C) region. The amino terminal domain varies from L chain to L chain and contributes to the binding site of the antibody. Because of its variability, it is referred to as the "variable" (V) region.

The H chains of Ig molecules are of several classes, α, μ, σ, α, and γ (of which there are several sub-classes). An assembled Ig molecule consisting of one or more units of two identical H and L chains, derives its name from the H chain that it possesses. Thus, there are five Ig isotypes: IgA, IgM, IgD, IgE and IgG (with four sub-classes based on the differences in the 'constant' regions of the H chains, i.e., IgG1, IgG2, IgG3 and IgG4). Further detail regarding antibody structure and their various functions can be found in, Using Antibodies: A laboratory manual, Cold Spring Harbour Laboratory Press.

In a preferred method of the invention said fragment is a Fab fragment.

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In a further preferred method of the invention said antibody is selected from the group consisting of: F(ab')<sub>2</sub>, Fab, Fv and Fd fragments; and antibodies comprising CDR3 regions.

Preferably said fragments are single chain antibody variable regions (scFV's) or domain antibodies. If a hybridoma exists for a specific monoclonal antibody it is well within the knowledge of the skilled person to isolate scFv's from mRNA extracted from said hybridoma via RT PCR. Alternatively, phage display screening can be undertaken to identify clones expressing scFv's. Domain antibodies are the smallest binding part of an antibody (approximately 13kDa). Examples of this technology is disclosed in US6, 248, 516, US6, 291, 158, US6,127, 197 and EP0368684 which are all incorporated by reference in their entirety.

A modified antibody, or variant antibody and reference antibody, may differ in amino acid sequence by one or more substitutions, additions, deletions, truncations which may be present in any combination. Among preferred variants are those that vary from a reference polypeptide by conservative amino acid substitutions. Such substitutions are those that substitute a given amino acid by another amino acid of like characteristics. The following non-limiting list of amino acids are considered conservative replacements (similar): a) alanine, serine, and threonine; b) glutamic acid and asparatic acid; c) asparagine and glutamine d) arginine and lysine; e) isoleucine, leucine, methionine and valine and f) phenylalanine, tyrosine and tryptophan. Most highly preferred are variants which show enhanced biological activity.

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Preferably said antibody is a humanised or chimeric antibody.

A chimeric antibody is produced by recombinant methods to contain the variable region of an antibody with an invariant or constant region of a human antibody.

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A humanised antibody is produced by recombinant methods to combine the complementarity determining regions (CDRs) of an antibody with both the constant (C) regions and the framework regions from the variable (V) regions of a human antibody.

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Chimeric antibodies are recombinant antibodies in which all of the V-regions of a mouse or rat antibody are combined with human antibody C-regions. Humanised antibodies are recombinant hybrid antibodies which fuse the complimentarity determining regions from a rodent antibody V-region with the framework regions from the human antibody V-regions. The C-regions from the human antibody are also used. The complimentarity determining regions (CDRs) are the regions within the N-terminal domain of both the heavy and light chain of the antibody to where the majority of the variation of the V-region is restricted. These regions form loops at the surface of the antibody molecule. These loops provide the binding surface between the antibody and antigen.

Antibodies from non-human animals provoke an immune response to the foreign antibody and its removal from the circulation. Both chimeric and humanised antibodies have reduced antigenicity when injected to a human subject because there is a reduced amount of rodent (i.e. foreign) antibody within the recombinant hybrid antibody, while the human antibody regions do not elicit an immune response. This results in a weaker immune response and a decrease in the clearance of the antibody. This is clearly desirable when using therapeutic antibodies in the treatment of human diseases. Humanised antibodies are designed to have less "foreign" antibody regions and are therefore thought to be less immunogenic than chimeric antibodies.

In an alternative preferred method of the invention said agent is a polypeptide or a peptide. Preferably said polypeptide or peptide is modified.

In a preferred method of the invention said peptide is at least 6 amino acid residues in length. Preferaby the length of said peptide/polypeptide is selected from the group

consisting of: at least 7 amino acid residues; 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, or 20 amino acid residues in length. Alternatively the length of said peptide/polypeptide is at least 20 amino acid residues; 30; 40; 50; 60; 70; 80; 90; or 100 amino acid residues in length.

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It will be apparent to one skilled in the art that modification to the amino acid sequence of peptide agents could enhance the binding and/or stability of the peptide with respect to its target sequence. In addition, modification of the peptide may also increase the *in vivo* stability of the peptide thereby reducing the effective amount of peptide necessary to inhibit the activity of a target polypeptide. This would advantageously reduce undesirable side effects which may result *in vivo*. Alternatively or preferably, said modification includes the use of modified amino acids in the production of recombinant or synthetic forms of peptides. It will be apparent to one skilled in the art that modified amino acids include, by way of example and not by way of limitation, 4-hydroxyproline, 5-hydroxylysine, N<sup>6</sup>-acetyllysine, N<sup>6</sup>-methyllysine, N<sup>6</sup>,N<sup>6</sup>-dimethyllysine, N<sup>6</sup>,N<sup>6</sup>-trimethyllysine, cyclohexyalanine, D-amino acids, ornithine. Other modifications include amino acids with a C<sub>2</sub>, C<sub>3</sub> or C<sub>4</sub> alkyl R group optionally substituted by 1, 2 or 3 substituents selected from halo (e.g. F, Br, I), hydroxy or C<sub>1</sub>-C<sub>4</sub> alkoxy. Modifications also include, by example and not by way of limitation, acetylation and amidation.

In a preferred embodiment of the invention said peptide sequence is acetylated. Preferably said acetylation is to the amino terminus of said peptide.

In a further preferred embodiment of the invention said peptide sequence is amidated.

Preferably said amidation is to the carboxyl-terminus of said peptide.

It will also be apparent to one skilled in the art that peptides could be modified by cyclisation. Cyclisation is known in the art, (see Scott *et al* Chem Biol (2001), 8:801-815; Gellerman et al J. Peptide Res (2001), 57: 277-291; Dutta *et al* J. Peptide

Res (2000), 8: 398-412; Ngoka and Gross J Amer Soc Mass Spec (1999), 10:360-363.

In a further preferred method of the invention said agent is nucleic acid molecule. Preferably said nucleic acid molecule is an aptamer or a modified aptamer. In an alternative preferred method of the invention said nucleic acid is an inhibitory RNA (RNAi) molecule. Alternatively said nucleic acid molecule is an antisense nucleic acid molecule.

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Nucleic acids have both linear sequence structure and a three dimensional structure 10 which in part is determined by the linear sequence and also the environment in which Conventional therapeutic molecules are small these molecules are located. molecules, for example, peptides, polypeptides, or antibodies, which bind target molecules to produce an agonistic or antagonistic effect. It has become apparent that 15 nucleic acid molecules also have potential with respect to providing agents with the requisite binding properties which may have therapeutic utility. These nucleic acid Aptamers are small, usually molecules are typically referred to as aptamers. stablised, nucleic acid molecules which comprise a binding domain for a target molecule. A screening method to identify aptamers is described in US 5,270,163, which is incorporated by reference. Aptamers are typically oligonucleotides which 20 may be single stranded oligodeoxynucleotides, oligoribonucleotides, or modified oligodeoxynucleotide or oligoribonucleotides.

The term "modified" encompasses nucleotides with a covalently modified base and/or sugar. For example, modified nucleotides include nucleotides having sugars which are covalently attached to low molecular weight organic groups other than a hydroxyl group at the 3' position and other than a phosphate group at the 5' position. Thus modified nucleotides may also include 2' substituted sugars such as 2'-O-methyl-; 2-O-alkyl; 2-O-alkyl; 2'-S-alkyl; 2'-S-alkyl; 2'- fluoro-; 2'-halo or 2;azido-ribose, carbocyclic sugar analogues a-anomeric sugars; epimeric sugars such as arabinose, xyloses or lyxoses, pyranose sugars, furanose sugars, and sedoheptulose.

Modified nucleotides are known in the art and include by example and not by way of acylated purines and/or alkylated purines and/or pyrimidines; limitation; pyrimidines; or other heterocycles. These classes of pyrimidines and purines are known in the art and include, pseudoisocytosine; N4, N4-ethanocytosine; 8-hydroxy-5-(carboxyhydroxylmethyl) 5-4-acetylcytosine, N6-methyladenine; 5-carboxymethylaminomethyl-2-thiouracil; 5-5-bromouracil; fluorouracil; carboxymethylaminomethyl uracil; dihydrouracil; inosine; N6-isopentyl-adenine; lmethyladenine; 1-methylpseudouracil; 1-methylguanine; 2,2-dimethylguanine; 2-5-methylcytosine; 3-methylcytosine; 2-methylguanine; methyladenine; methyladenine; 7-methylguanine; 5- methylaminomethyl uracil; 5-methoxy amino methyl-2-thiouracil; β-D-mannosylqueosine; 5-methoxycarbonylmethyluracil; 5methoxyuracil; 2 methylthio-N6-isopentenyladenine; uracil-5-oxyacetic acid methyl ester, psueouracil; 2-thiocytosine; 5-methyl-2 thiouracil, 2-thiouracil; 4-thiouracil; 5methyluracil; N-uracil-5-oxyacetic acid methylester; uracil 5-oxyacetic acid; queosine; 2-thiocytosine; 5-propyluracil; 5-propylcytosine; 5-ethyluracil; 5-pentylcytosine; 2,6,and 5-pentyluracil; 5-butyluracil; ethylcytosine; diaminopurine; methylpsuedouracil; 1-methylguanine; 1-methylcytosine.

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The aptamers of the invention are synthesized using conventional phosphodiester linked nucleotides and synthesized using standard solid or solution phase synthesis techniques which are known in the art. Linkages between nucleotides may use alternative linking molecules. For example, linking groups of the formula P(O)S, (thioate); P(S)S, (dithioate); P(O)NR'2; P(O)R'; P(O)OR6; CO; or CONR'2 wherein R is H (or a salt) or alkyl (1-12C) and R6 is alkyl (1-9C) is joined to adjacent nucleotides through -O- or -S-. The binding of aptamers to a target polypeptide is readily testable.

An alternative nucleic acid molecule is a so called RNAi molecule. A recent technique to specifically ablate gene function is through the introduction of double stranded RNA, also referred to as inhibitory RNA (RNAi), into a cell which results

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in the destruction of mRNA complementary to the sequence included in the RNAi molecule. The RNAi molecule comprises two complementary strands of RNA (a sense strand and an antisense strand) annealed to each other to form a double stranded RNA molecule. The RNAi molecule is typically derived from exonic or coding sequence of the gene which is to be ablated. Recent studies suggest that RNAi molecules ranging from 100-1000bp derived from coding sequence are effective inhibitors of gene expression. Surprisingly, only a few molecules of RNAi are required to block gene expression which implies the mechanism is catalytic. The site of action appears to be nuclear as little if any RNAi is detectable in the cytoplasm of cells indicating that RNAi exerts its effect during mRNA synthesis or processing.

In a preferred method of the invention there is provided a cassette comprising a nucleic acid molecule, or part thereof, wherein said molecule is selected from the group consisting of:

- i) a nucleic acid molecule represented by the nucleic acid sequence shown in Table 1;
  - ii) a nucleic acid molecule which hybridises to the sequence in (i) above and which encodes a polypeptide which initiates or promotes transformation of colon cells; or
- 20 iii) a nucleic acid molecule which is degenerate because of the genetic code to the sequences defined in (i) and (ii) above, wherein said cassette is adapted such that both sense and antisense nucleic acid molecules are transcribed from said cassette.
- In a preferred method of the invention said cassette is provided with at least two promoters adapted to transcribe both sense and antisense strands of said nucleic acid molecule.
- In a further preferred method of the invention said cassette comprises a nucleic acid 30 molecule wherein said molecule comprises a first part linked to a second part wherein said first and second parts are complementary over at least part of their

sequence and further wherein transcription of said nucleic acid molecule produces an RNA molecule which forms a double stranded region by complementary base pairing of said first and second parts.

In a preferred embodiment of the invention said first and second parts are linked by at 5 least one nucleotide base.

In a preferred embodiment of the invention said first and second parts are linked by 2, 3, 4, 5, 6, 7, 8, 9 or at least 10 nucleotide bases.

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In a further preferred embodiment of the invention the length of the RNAi molecule is between 100bp-1000bp. More preferably still the length of RNAi is selected from 100bp; 200bp; 300bp; 400bp; 500bp; 600bp; 700bp; 800bp; 900bp; or 1000bp. More preferably still said RNAi is at least 1000bp.

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In an alternative preferred method of the invention the RNAi molecule is between 15bp and 25bp, preferably said molecule is 21bp. Preferably said cassette is part of a vector.

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According to a further aspect of the invention there is provided an antibody identified by the method according to the invention for use as a pharmaceutical.

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According to a further aspect of the invention there is provided a polypeptide or peptide identified by the method according to the invention for use as a pharmaceutical.

According to a further aspect of the invention there is provided a nucleic acid molecule identified by the method according to the invention for use as a pharmaceutical.

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In a preferred embodiment of the invention said nucleic acid molecule is an aptamer.

In an alternative preferred embodiment of the invention said nucleic acid molecule is an inhibitory RNA.

In a further alternative preferred embodiment of the invention said nucleic acid molecule is an antisense nucleic acid molecule.

In a preferred embodiment of the invention said pharmaceutical further comprises a a diluent, carrier or excipient.

When administered, the therapeutic compositions of the present invention are administered in pharmaceutically acceptable preparations. Such preparations may routinely contain pharmaceutically acceptable concentrations of salt, buffering agents, preservatives, compatible carriers, supplementary immune potentiating agents such as adjuvants and cytokines and optionally other therapeutic agents, such as chemotherapeutic agents.

The therapeutics of the invention can be administered by any conventional route, including injection or by gradual infusion over time. The administration may, for example, be oral, intravenous, intraperitoneal, intramuscular, intracavity, subcutaneous, or transdermal. When antibodies are used therapeutically, a preferred route of administration is by pulmonary aerosol. Techniques for preparing aerosol delivery systems containing antibodies are well known to those of skill in the art. Generally, such systems should utilize components which will not significantly impair the biological properties of the antibodies, such as the paratope binding capacity (see, for example, Sciarra and Cutie, "Aerosols," in Remington's Pharmaceutical Sciences, 18th edition, 1990, pp 1694-1712; incorporated by reference). Those of skill in the art can readily determine the various parameters and conditions for producing antibody aerosols without resort to undue experimentation. When using antisense preparations of the invention, slow intravenous administration

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The compositions of the invention are administered in effective amounts. An "effective amount" is that amount of a composition that alone, or together with further doses, produces the desired response. In the case of treating a particular disease, such as cancer, the desired response is inhibiting the progression of the disease. This may involve only slowing the progression of the disease temporarily, although more preferably, it involves halting the progression of the disease permanently. This can be monitored by routine methods or can be monitored according to diagnostic methods of the invention discussed herein.

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Such amounts will depend, of course, on the particular condition being treated, the severity of the condition, the individual patient parameters including age, physical condition, size and weight, the duration of the treatment, the nature of concurrent therapy (if any), the specific route of administration and like factors within the knowledge and expertise of the health practitioner. These factors are well known to those of ordinary skill in the art and can be addressed with no more than routine experimentation. It is generally preferred that a maximum dose of the individual components or combinations thereof be used, that is, the highest safe dose according to sound medical judgment. It will be understood by those of ordinary skill in the art, however, that a patient may insist upon a lower dose or tolerable dose for medical reasons, psychological reasons or for virtually any other reasons.

The pharmaceutical compositions used in the foregoing methods preferably are sterile and contain an effective amount for producing the desired response in a unit of weight or volume suitable for administration to a patient. The response can, for example, be determined by measuring the physiological effects of the composition, such as regression of a tumour, decrease of disease symptoms, modulation of apoptosis, etc.

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administration used and the state of the subject. Other factors include the desired period of treatment. In the event that a response in a subject is insufficient at the initial doses applied, higher doses (or effectively higher doses by a different, more localized delivery route) may be employed to the extent that patient tolerance permits.

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In general, doses of pharmaceutical are formulated and administered in doses between 1 ng and about 500mg, and between 10 ng and 100mg, according to any standard procedure in the art. Where nucleic acids are employed, doses of between 1 ng and 0.1mg generally will be formulated and administered according to standard procedures. Other protocols for the administration of compositions will be known to one of ordinary skill in the art, in which the dose amount, schedule of injections, sites of injections, mode of administration (e.g., intra-tumoral) and the like vary from the foregoing. Administration of pharmaceutical compositions to mammals other than humans, e.g. for testing purposes or veterinary therapeutic purposes, is carried out under substantially the same conditions as described above. A subject, as used herein, is a mammal, preferably a human, and including a non-human primate, cow, horse, pig, sheep, goat, dog, cat or rodent.

When administered, the pharmaceutical preparations of the invention are applied in pharmaceutically-acceptable pharmaceutically-acceptable amounts and in compositions. The term "pharmaceutically acceptable" means a non-toxic material that does not interfere with the effectiveness of the biological activity of the active Such preparations may routinely contain salts, buffering agents, ingredients. preservatives, compatible carriers, and optionally other therapeutic agents. When used in medicine, the salts should be pharmaceutically acceptable, but nonpharmaceutically acceptable salts may conveniently be used to prepare pharmaceutically-acceptable salts thereof and are not excluded from the scope of the invention. Such pharmacologically and pharmaceutically-acceptable salts include, but are not limited to, those prepared from the following acids: hydrochloric, hydrobromic, sulfuric, nitric, phosphoric, maleic, acetic, salicylic, citric, formic,

malonic, succinic, and the like. Also, pharmaceutically-acceptable salts can be prepared as alkaline metal or alkaline earth salts, such as sodium, potassium or calcium salts.

Pharmaceutical compositions may be combined, if desired, with a pharmaceutically-acceptable carrier. The term "pharmaceutically-acceptable carrier" as used herein means one or more compatible solid or liquid fillers, diluents or encapsulating substances which are suitable for administration into a human. The term "carrier" denotes an organic or inorganic ingredient, natural or synthetic, with which the active ingredient is combined to facilitate the application. The components of the pharmaceutical compositions also are capable of being co-mingled with the molecules of the present invention, and with each other, in a manner such that there is no interaction which would substantially impair the desired pharmaceutical efficacy.

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The pharmaceutical compositions may contain suitable buffering agents, including: acetic acid in a salt; citric acid in a salt; boric acid in a salt; and phosphoric acid in a salt.

20 The pharmaceutical compositions also may contain, optionally, suitable preservatives, such as: benzalkonium chloride; chlorobutanol; parabens and thimerosal.

The pharmaceutical compositions may conveniently be presented in unit dosage form and may be prepared by any of the methods well-known in the art of pharmacy. All methods include the step of bringing the active agent into association with a carrier which constitutes one or more accessory ingredients. In general, the compositions are prepared by uniformly and intimately bringing the active compound into association with a liquid carrier, a finely divided solid carrier, or both, and then, if necessary, shaping the product.

Compositions suitable for oral administration may be presented as discrete units, such as capsules, tablets, lozenges, each containing a predetermined amount of the active compound. Other compositions include suspensions in aqueous liquids or non-aqueous liquids such as a syrup, elixir or an emulsion.

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Compositions suitable for parenteral administration conveniently comprise a sterile aqueous or non-aqueous preparation of pharmaceutical agents, which is preferably isotonic with the blood of the recipient. This preparation may be formulated according to known methods using suitable dispersing or wetting agents and suspending agents. The sterile injectable preparation also may be a sterile injectable solution or suspension in a non-toxic parenterally-acceptable diluent or solvent, for example, as a solution in 1,3-butane diol. Among the acceptable vehicles and solvents that may be employed are water, Ringer's solution, and isotonic sodium chloride solution. In addition, sterile, fixed oils are conventionally employed as a solvent or suspending medium. For this purpose any bland fixed oil may be employed including synthetic mono-or di-glycerides. In addition, fatty acids such as oleic acid may be used in the preparation of injectables. Carrier formulation suitable for oral, subcutaneous, intravenous, intramuscular, etc. administrations can be found in Remington's Pharmaceutical Sciences, Mack Publishing Co., Easton, PA.

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An embodiment of the invention will now be described by example only and with reference to the following Figures and Tables;

Figure 1 illustrates a concentration-response of cells growing in butyrate as sole carbon source. This is the summary of four independent repeat experiments. Legend shows butyrate concentrations in mM;

Figure 2 illustrates the purity and quality of RNA preparation. The 28S and 18S sample bands are tight and clearly resolved for RNA prepared from butyrate- and glucose-grown cells. Little or no DNA or salt contamination appears in the samples;

Table 1 illustrates nucleic acid sequences identified by the screening method according to the invention; and

5 Table 2 illustrates a summary of expression data of nucleic acid sequences identified in Table 1.

### **Materials and Methods**

We have compared the expression profiles of colon cells growing in either glucose or butyrate as a carbon source. HT 29 colon carcinoma cells were cultured in DMEM medium (Gibco) in the presence of 10% foetal calf serum, penicillin and streptomycin. Cells were either cultured in glucose alone as the sole carbon source, or in butyrate as the sole extraneous provided carbon source. Empirical analysis of HT29 cells grown in multiple butyrate concentrations revealed that 2mM butyrate was optimal for cell culture in the absence of glucose. Cells were cultured in either medium for multiple passages (typically 4). RNA was extracted from cells grown in each condition and used to probe an Affymetrix human 12k array. The expression profile of cells cultured in each condition was compared and genes altered in expression by more than 2 fold are listed in Table 2.

# Materials used during this study

ITEM	ITEM - SPECIFICS	SUPPLIER
Glucose medium (1)	Dulbecco's Modified Eagle	GIBCO
	Medium 25 mM HEPES 1	
	x 0.1 micron filtered with	
	sodium pyruvate, with 1000	

	mg/l glucose with	
	pyridoxine + FCS + p/s (500	
	ml)	
D (2)	Dull access Madified Regle	GIBCO
Butyrate medium (2)	Dulbecco's Modified Eagle	GIRCO
0.2 mM NaB medium	Medium 1 x 0.1 micron	
	filtered with L-glutamine	
	without glucose, without	
	sodium pyruvate + NaB	
	(1M) 110 μl + FCS + p/s	
	(555.1 ml)	
	· ·	
Butyrate medium (3)	Dulbecco's Modified Eagle	GIBCO
2 mM NaB medium	Medium 1 x 0.1 micron	
	filtered with L-glutamine	
	without glucose, without	
	sodium pyruvate + NaB	
	(1M) 1100 μl + FCS + p/s	
	(556.1 ml)	
Medium without	Dulbecco's Modified Eagle	GIBCO
glucose and without	Medium 1 x 0.1 micron	
butyrate (4)	filtered with L-glutamine	
	without glucose, without	
	sodium pyruvate + FCS +	
	p/s (550 ml)	
NaB stock	Sodium Butyrate powder	Sigma
	dissolved in sterile water	
	250 mg in 2.27 ml water	

	(1M) 0.2 μm filter sterilised	
0: 3	5 ml	Becton Dickinson UK, Ltd
Sterile syringes	Э Ш	Becton Dicknison Ox, Etc
Sterilising filters	0.2 μm Acrodisc	Gelman Sciences, Ltd
<u>Item</u>	Item specifics	Supplier
FOG	Foetal Calf Serum 50 ml per	Harlan Sera Lab
FCS	500 ml DMEM	Tianan bota Law
	300 M DIAZZV	
P/S	Penicillin – Streptomycin	Sigma
№ .	solution 100ml bottle (100	
	X) – 5 ml per 500 ml	
	DMEM	
TE for splitting cells	Trypsin Enzyme – 100 ml	Sigma
•	bottle - 3 ml per T75 and 1	
	ml per 6 well plate well	ş
FCS tubes	50 ml Centrifuge tubes	Corning Inc
	-	
P/S + TE tubes	30 ml Universal containers	Bibby Sterilin Ltd
		Greiner bio-one
Tissue Culture Plates	6 well sterile with lid single	Greiner blo-one
	packed	
Tissue Culture Flasks	T 75	Nunclon
	Complemies 1 Dimetto	Corning Inc / Costar
Stripette ® 5ml, 10ml,	Serological Pipette,	Commis mo / Coom

25 ml	individually wrapped	
Pipette	Powerpette plus	Jencons
Cell Counting Slide	Haemocytometer, improved Neubauer	Neubauer
Ethanol for tissue culture	70 % EtOH	Sigma
Virkon for cell culture	1 % Virkon	Day Impex, Ltd
Microscope for cell work	Light 6 – 10X	CK Olympus, Tokyo
Paper towels	Blue	Jamont (UK), Ltd
Latex-free examination gloves	Large	Shermond Surgical Supply,  Ltd
<u>Item</u>	Item specifics	<u>Supplier</u>
RNA extraction reagent	TRIzol ® Reagent	Invitrogen – Life technologies
RNA extraction reagent	Chloroform	Sigma
RNA extraction reagent	Isopropyl alcohol	Sigma

RNA extraction reagent	75% EtOH in DEPC-treated	Sigma		
	water			
RNA extraction reagent	Rnase-free water	Sigma		
14.11.011	10000			
	D 16:1: XE:1 (10	0:		
RNA clean up kit	Rneasy Midi Kit (10	Qiagen		
	RNeasy midi spin columns)			
β- Mercaptoethanol	14.3 M stock solution	Sigma		
	,			
Ethanol for Qiagen	96-100% EtOH	Sigma		
	S			
Agarose	1g in 100 ml TB-EDTA-	Helena Biosciences, UK		
	Buffer			
TB-EDTA- Buffer	Tris-Borate-EDTA buffer	Sigma		
	. 100ml			
Eppendorf tubes	1.5 ml	Sarstedt Laboratory		
		supplies, Ltd		
Tanking by 66	6 X	Promoco		
Loading buffer	0 A	Promega		

# The Human Colon Carcinoma Cell Line - HT29

The HT29 cell line is established from a colon adenocarcinoma which was removed from a 44 year old Caucasian woman. The cell line is epithelial in origin and hypertriploid. It has been shown to be tumourigenic in nude mice and synthesizes Carcino embryonic antigen - CEA (Egan & Todd, 1972) and the Transforming

growth factors - TGF- $\alpha$  and TGF- $\beta$  (Anzano et al. 1989) when maintained in vitro. The HT29 cell line constitutively over-produces mutant p53 protein as a consequence of a point mutation at codon 273, resulting in an Arginine to Histidine amino acid substitution (Hsu et al. 1994).

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### The Culture of HT29 Colorectal adenocarcinoma cells

Cells were cultured in T75 tissue culture flasks (Nunclon) in 5% CO<sub>2</sub> at 37°C. Cells were passaged when confluent by washing twice in PBS and incubating in prewarmed trypsin: EDTA (1:1) at 37°C until cells detached. The cells were then re-suspended in the appropriate growth medium, either glucose DMEM or butyrate DMEM before being seeded into new T75 tissue culture flasks or 6-well plates.

### Optimisation of HT29 cell growth in butyrate as sole extraneous carbon source

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HT29 cells were seeded out into 19 wells (in 6 well plates) at a cell density of 0.5 x  $10^6$  cells per well (i.e. 500 000 cells per well) deduced with the aid of a Haemocytometer (Improved Neubauer). These cells were taken from T75 - 0.2 mM butyrate (NaB) DMEM flasks and allowed to adhere to the 6-well plates over 72 hrs also in 0.2 mM NaB DMEM with FCS and Penicillin / Streptomycin antibiotics. After the cells had adhered to the surface of the 6 well plates the 0.2 mM NaB DMEM was removed and each well was washed twice with PBS in order to remove all traces of the 0.2 mM DMEM, then different concentrations of NaB DMEM with FCS and with Penicillin / Streptomycin antibiotics were added to the appropriate wells in triplicate. Cell counts were taken at various time points. Specific media was changed daily in order to maintain the appropriate / desired NaB concentrations per well. All solutions / reagents used were pre-warmed in a water bath prior to use so as to avoid any cold shock to the cells.

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## RNA extraction using TRIzol® Reagent

Total RNA was extracted from HT29 cells grown to confluence in T75 flasks using TRIzol Reagent as per manufacturer's recommendations. Cells were grown for several passages either in butyrate-containing medium, or in glucose-containing medium prior to extraction of RNA

Cells were homogenised using 1 ml TRIzol Reagent per 10 cm<sup>2</sup> area of culture surface. The homogenised samples were incubated for 5 minutes at at ambient temperature to permit the complete dissociation of nucleoprotein complexes. 200µl of chloroform was added to each sample. Tubes were shaken vigorously by hand for 15 seconds and incubated at ambient temperature for 3 minutes. Samples were centrifuged at 12000g for 15 minutes at 4oC. RNA in the aqueous phase was separated and precipitated using isopropyl alcohol. RNA was rinsed, air dried and redissolved in RNase-free water.

RNA was further purified using Qiagen RNeasy columns. The columns were used exactly as per manufacturer's recommendations. RNA was eluted into RNase-free water.

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RNA purified in this way was analysed by agarose gel to establish purity and quality. The gel is shown in figure 2.

#### Microarray analysis

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Microarray analysis was undertaken as a commercial service by the University of Newcastle-upon-Tyne. In this study, the 2 RNA samples (1x butyrate + 1x glucose) from the 2 experimental conditions (butyrate + glucose) were sent to the Institute for Human Genetics at the University of Newcastle-upon-Tyne for microarray analysis. This was performed on a 12 k Affymetrix *Homo sapiens* gene chip. Genes altered in expression by more than 2 fold on the microarray are listed in table 1.

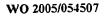
Table 1
Human mitochondrial ADP/ADT translocator mRNA, complete cds.

cccctagcg tcgcgcaggg	tcggggactg	cgcgcggtgc	caggccgggc	gtgggcgaga	60
gcacgaacgg gctgctgcgg	gctgagagcg	tcgagctgtc	accatgggtg	atcacgcttg	120
gagetteeta aaggaettee	tggccggggc	ggtcgccgct	gccgtctcca	agaccgcggt	180
cgccccatc gagagggtca	aactgctgct	gcaggtccag	catgccagca	aacagatcag	240
tgctgagaag cagtacaaag					300
cttcctctcc ttctggaggg	gtaacctggc	caacgtgatc	cgttacttcc	ccacccaagc	360
tctcaacttc gccttcaagg	acaagtacaa	gcagctcttc	ttagggggtg	tggatcggca	420
taagcagttc tggcgctact	ttgctggtaa	cctggcgtcc	ggtggggccg	ctggggccac	480
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tagagetgee tactteggag	tctatgatac	tgccaagggg	atgctgcctg	accccaagaa	720
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caaggccttc ttcaaaggtg	cctggtccaa	tgtgctgaga	ggcatgggcg	gtgcttttgt	960
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ctaggggaag taaaaagatc	tgggataaaa	ccagactgaa	aggaatacct	cagaagagat	1140
gcttcattga gtgttcatta	aaccacacat	gtattttgta	tttattttac	atttaaattc	1200
ccacagcaaa tagaaataat	ttatcatact	tgtacaatta	actgaagaat	tgataataac	1260
tgaatgtgaa acatcaataa					1320



## Homo sapiens mRNA for VNN1 protein

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totcaagage	cagetgecag	qacactttca	ttgcagctgt	ttatgagcat	gcagcgarar	120
tacccaatac	caccctaaca	ccaqtqtctc	qtgaggaggc	tttggcatta	atgaategga	180
atctggacat	tttqqaaqqa	qcqatcacat	cagcagcaga	tcagggtgeg	catattatty	240
tgactccaga	agatgctatt	tatggctgga	acttcaacag	ggactetete	tacccatatt	300
togaggacat	cccagaccct	qaaqtaaact	ggateceetg	taataatcgt	aacagatttg	360
gccagacccc	agtacaagaa	agactcagct	gcctggccaa	gaacaactct	acctatgttg	420
togcaaatat	togggacaag	aagccatgcg	ataccagtga	tcctcagtgt	ecceetgatg	480
gccgttacca	atacaacact	gatgtggtat	ttgattctca	aggaaaactg	grggcacgcr	540
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tocatgatec	tgctgttacc	ttggtgaaag	atttccacgt	ggacaccata	gtattcccaa	720
cagettggat	gaatgttttg	ccacatttgt	cagctgttga	attccactca	gcttgggcta	780
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agggaaaact	cctcctctcg	caactggatt	cccacccatc	ccattctgca	gtggtgaact	960
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caagaataat	aatqctaata	gttatagcac	ctattgtatg	ctcattaagt	tggtagaata	1560
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tatcacaaat	cttttacqca	gaagaaataa	aaactacggg	tagaaaacat	aagaactatc	1860
ataaaattta	cttacaaqga	ggetgetett	gttaccactt	ttattatatt	acgtatcact	1920
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onttract.	, caugauacac . ttttcaacac	ctaatagaaa	ataagaaagc	ccataatqta	tttagaaaca	3000
- catalycoll	, carcastrot	ctatattete	atataatttc	aatqtaaaac	agaaaacata	3060
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ctgatgtgtt	. ggrgaraggr					



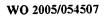
### Homo sapiens transmembrane protein 5, mRNA

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tttcttatcg	ccctgtactg	cctattctcc	ctctacgctg	cctaccacgt	cttcttcggg	180
egeegeegee	aggcgccggc	cgggtccccg	cggggcctca	ggaagggggc	ggcccccgcg	240
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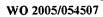
Homo sapiens CD3e-associated protein (CAST) mRNA, complete cds.

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Homo sapiens Apo-2 ligand mRNA, complete cds.

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gacttacagc	agtcagactc	tgacaggatc	atggctatga	tggaggtcca	ggggggaccc	120
agcctgggac	agacctgcgt	gctgatcgtg	atcttcacag	tgctcctgca	gtctctctgt	180
gtggctgtaa	cttacgtgta	ctttaccaac	gagctgaagc	agatgcagga	caagtactcc	240
aaaagtggca	ttgcttgttt	cttaaaagaa	gatgacagtt	attgggaccc	caatgacgaa	300
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qaccaaaaca	a aacaaacaga	a aa				•



### Homo sapiens mRNA for annexin A13 (ANXA13 gene), isoform b

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		catagccagt				120
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		cagcctgcta				240
		aacaaagcct				300
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		tccggggact				1140
		gaacacaggg				1200
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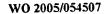
## WO 2005/054507

Homo sapiens serine protease inhibitor, Kazal type 1, mRNA (cDNA clone

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ggccttattg	ttgaataaat	gtatctgaat	atcaaaaaaa	aaaaaaaaa	aaaaaaaaa	360
22						

## Homo sapiens B cell linker protein BLNK mRNA, alternatively spliced

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aaaaaa	•					



Homo sapiens cDNA FLJ12768 fis, clone NT2RP2001576, weakly similar to HYPOTHETICAL 62.2 KD PROTEIN C4G8.12C IN CHROMOSOME I

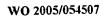
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Homo sapiens glycine amidinotransferase (L-arginine:glycine amidinotransferase), mRNA (cDNA clone MGC:1744 IMAGE:3010128), complete

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aa							

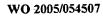
Homo sapiens cDNA FLJ10143 fis, clone HEMBA1003281, weakly similar to POLIOVIRUS RECEPTOR PRECURSOR.

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Homo sapiens leucine aminopeptidase 3, mRNA (cDNA clone IMAGE:2821948), partial cds

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aagacaatgc	ttagttcaga	tactcaaaaa	tgtcttcact	ctgtcttaaa	ttggacagtt	1560
gaacttaaaa	ggtttttgaa	taaatggatg	aaaatctttt	aacggagaca	aaggatggta	1620
	tagaacacaa					1680
	aggtaaagtt					1740
	ttttagaact					1800
caaaattgta	actcagattt	gtgatgctag	gaacatgagc	aaactgaaaa	ttactatgca	1860
cttgtcagaa	acaataaatg	caacttgttg	tgctcaaaaa	aaaaaaaaa	aaaaaaaaa	1920
aaaaaaaaa	aaaaaaa					



Homo sapiens mRNA for protein phosphatase 4 regulatory subunit 2 (PPP4R2 gene)

actgtacaaa	tgctttattt.	ctattcaata	tttagaagac	agttataaac	aagatgcatt	60
caatagcatg	gtggcagatg	aacatcagga	aggaacatcc	atgagettee	atccacggaa	120
cctcaccatq	gatacgcttg	tgatcaaggg	cctggtctcc	cctcaagaca	cggtcacaga	180
tcagaggcca	caccatccta	gcagtggagc	agtaccagct	gggacagggt	ccttctgtga	240
cacctactac	atcaccaggc	tgggtgaacg	gacacaattg	ccagaactca	cagaatagaa	300
gtatcagcac	cqaaacctca	caggaaaaat	ggtaagttct	aagtttctcc	attaatagta	360
actctcagat	taatctctgt	catccatcgc	ttctccaaga	aatgactttt	tagggtgatg	420
taccadacac	catottggag	ggctggtggt	ageggettgg	ggaggtgctc	actetgtegg	480
tettactete	tcqcacqctt	cccccggctc	ccttcgtttc	cccccccgg	tegeetgegt	540
accagaatat	qtgcgaggga	gggggagggc	gtcggggggg	tggggggagg	cgttecggte	600
cccaaaaqac	ccgcggaggg	aggcggaggc	tgtgagggac	tccgggaagc	catggacgtc	660
gagaggetee	aggaggcgct	gaaagatttt	gagaagaggg	ggaaaaagga	agtttgtcct	720
gtectggate	agtttctttg	tcatgtagcc	aagactggag	aaacaatgat	tcagtggtcc	780
caatttaaag	gctattttat	tttcaaactg	gagaaagtga	tggatgattt	cagaacttca	840
gctcctgagc	caagaggtcc	tcccaaccct	aatgtcgaat	atattccctt:	tgatgaaatg	900
aaqqaaagaa	tactgaaaat	tgtcactgga	tttaatggta	tcccttttac	tattcagcga	960
ctatgtgaat	tgttaacaga	tccaaggaga	aactatacag	gaacagacaa	atttctcaga	. 1020
ggagtagaaa	agaacgtgat	ggttgttagc	tgtgtttatc	cttcttcaga	gagaaacaat	1080
tccaatagtt	taaatcgaat	gaatggtgtg	atgtttcctg	gaaatgcacc	aagctatact	1140
gagaggteta	atataaatgg	gcctgggaca	cccaggccac	gtaatcgacc	aaaggtttct	1200
ctqtcaqccc	ccatgacaac	aaatgggtgg	cctgagagca	cagacagcaa	agaggcaaat	1260
ttgcagcaaa	atgaggagaa	aactcacagt	gactcttcga	catctgaatc	agaagtttcc	1320
tcagtgagee	ctttgagaaa	taaacatcca	gatgaagatg	ctgtggaagc	tgaggggcat	1380
gaggtaaaaa	gactcaggtt	tgacaaagaa	ggtgaagtca	gagaaacagc	cagtcaaacg	1440
acttccaqcq	aaatttcttc	agttatggta	ggagaaacag	aagcatcatc	ttcatctcag	1500
gataaagaca	aagatagccg	ttgtacccgg	cagcactgta	cagaagagga	tgaagaagag	1560
gatgaagagg	aagaagaaga	gtcttttatg	acatcaagag	aaatgatccc	agaaagaaaa	1620
aatcaagaaa	aagaatctga	tgatgcctta	actgtgaatg	aagagacttc	tgaagaaaat	1680
aatcaaatgg	aggaatctga	tgtgtctcaa	gctgagaaag	atttgctaca	ttctgaaggt	1740
agtgaaaacg	aaggccctga	aagtaagtgg	ttcttctgac	tgccgtgaaa	cagaaaaatt	1800
agtaggaacc	aattcccagt	aaaactggaa	agaatctttc	cagaatcatc	ccatggataa	1860
tgatgacgaa	gccacagaag	tcaccgatga	accactggaa	caagactatt	tagaaacatt	1920
tacatgcagt	attttacaca	cagttctggt	tttaacactg	tataaaactt	ttatgtaaaa	1980
aagtgcacct	ttagttttac	aagtaaagca	ggttgtaaaa	taaagtactt	tatggataat	2040
tcctgaaag	-				•	

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# Human mRNA for (2'-5') oligo A synthetase E (1,6 kb RNA)

gaggcagttc	tgttgccact	ctctctcctg	tcaatgatgg	atctcagaaa	taccccagcc	. 60
aaatctctgg	acaagttcat	tgaagactat	ctcttgccag	acacgtgttt	ccgcatgcaa	120
atcgaccatg	ccattgacat	catctgtggg	ttcctgaagg	aaaggtgctt	ccgaggtagc	180
tcctaccctg	tgtgtgtgtc	caaggtggta	aagggtggct	cctcaggcaa	gggcaccacc	240
ctcagaggcc	gatctgacgc	tgacctggtt	gtcttcctca	gtcctctcac	cacttttcag	300
gatcagttaa	atcgccgggg	agagttcatc	caggaaatta	ggagacagct	ggaagcctqt	360
caaagagaga	gagcactttc	cgtgaagttt	gaggtccagg	ctccacgctg	gggcaacccc	420
egtgegetea	gcttcgtact	gagttcgctc	cagctcgggg	agggggtgga	gttcgatgtg	480
ctgcctgcct	ttgatgccct	gggtcagttg	actggcagct	ataaacctaa	ccccaaatc	540
tatgtcaagc	tcatcgagga	gtgcaccgac	ctgcagaaag	agggcgagtt	ctccacctgc	600
ttcacagaac	tacagagaga	cttcctgaag	cagegeeeca	ccaagctcaa	gagcctcatc	660
cgcctagtca	agcactggta	ccaaaattgt	aagaagaagc	ttgggaagct	gccacctcag	720
tatgccctgg	agctcctgac	ggtctatgct	tgggagcgag	ggagcatgaa	aacacatttc	780
aacacagccc	aaggatttcg	gacggtcttg	gaattagtca	taaactacca	gcaactctgc	840
atctactgga	caaagtatta	tgactttaaa	aaccccatta	ttgaaaagta	cctgagaagg	900
cagctcacga	aacccaggcc	tgtgatcctg	gacccggcgg	accctacagg	aaacttgggt	960
			gcacaagagg			1020
			gtgagctcct			1080
cctgcttcct	ccctgccatt	catccctgcc'	cctctccatg	aagcttgaga	catatagctg	1140
gagaccattc	tttccaaaga	acttacctct	tgccaaaggc	catttatatt	catatagtga	1200
caggetgtge	tccatatttt	acagtcattt	tggtcacaat	cgagggtttc	tggaattttc	1260
acatcccttg	tccagaattc	attcccctaa	gagtaataat	aaataatctc	taacaccaaa	1320
2.2						

PCT/GB2004/005078

# WO 2005/054507

Homo sapiens A-kinase anchoring protein 18 beta mRNA, complete cds.

aggaaagaca gacaggacca gtg tgaaggaaaa atcagtgagt tg ggatataccc agttggtcaa gtg agtaaggctc agtaagaggc tg ggaggaaaca cagaataaaa ac tgatcagaat qqcaatgaca at	tgcaattt ctatttgggg teetcaegga gaagaacaee gecatggg ceagetttge tgettteett teteaagaga gaaagete gteetetgea gteetacaaa gatacageaa ggtgaaaa gaaeggaggg gageeegatg aegetgaaet gtggagaa egeggtgete aaggetgtee ageagtatet aageeggg ggagggage tetgtgaaaa eegaageage gagaacaa eaggaaatga geeeggaaeg eaggeeeeca	60 120 180 240 300 360 420					
tgtctctqtq caaagectec ctgcttccct ctgctgagtc tag							

# Homo sapiens peptidyl prolyl isomerase H (cyclophilin H), mRNA (cDNA clone

cttctgcttc	cgggtcggag	ccatggcggt	ggcaaattca	agtcctgtta	accccgtggt	60	
				atgaagatcg		120	
				tgcaccggag		180	
				agggtcataa		240	
				gtcgccagta		300	
gccatttgca	gatgaaaatt	ttaaacttag	acactcagct	ccaggcctgc	tttccatggc	360	
gaacagtggt	ccaagtacaa	atggctgtca	gttctttatc	acctgctcta	agtgcgattg	420	
gctggatggg	aagcatgtgg	tgtttggaaa	aatcatcgat	ggacttctag	tgatgagaaa	480	
				ctacctgtgg		540	
				ttcccttctt		600	
ttcttgagta	agataatctg	gactggcccc	cgtctttgct	tecctgectg	ctgctgcccc	660	
atttgatcaa	gagaccatgg	aagtgtcaga	gattcagaat	ccaagattgt	ctttaagttt	720	
tcaactqtaa ataaaqtttt tttqtatqcq taaaaaaaaa aaaaa							

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Homo sapiens mRNA; cDNA DKFZp564C0362 (from clone DKFZp564C0362); complete cds

gaagaagact	gtgatgggtt	gacaggtgcg	tgacagtggg	agctgctctc	ggcacaagca	60
totacogcaa	aggcaagagt	aacaqcaqcq	ccgtcccgtc	cgacagccag	gcccgggaga	120
agttagcact	ctacgtatat	gaatatctqc	tccatgtagg	agctcagaaa	tcagctcaaa	180
catttttatc	agagataaga	toggaaaaaa	acatcacatt	gggggaacca	ccaggattct	240
tacattcttq	gtggtgtgta	ttttgggatc	tctactgtgc	agctccagag	agacgtgaaa	300
catgtgaaca	ctcaagtgaa	gcaaaagcct	tccatgatta	cagtgctgca	gcagctccca	360
atccagtact:	aggaaacatt	ccccaqqaq	atggcatgcc	agtaggtcct	gtaccaccag	420
gettetttea	gccttttatg	teaceteggt	accetqqagg	tccaaggccc	ccattgagga	480
tacctaatca	ggcacttgga	gatataccag	gaagtcagcc	attactcccc	agaggaatgg	540
atccaactcq	acaacaagga	catccaaata	taggtaggee	aatgcagaga	atgactcctc	600
caagaggaat	ggtgccctta	ggaccacaga	actatggagg	tgcaatgaga	ccccactga	660
atoctttagg	tggccctgga	atocctogaa	tgaacatggg	tccaggtggt	ggtagacctt	720
caccasaccc	aacaaatgcc	aattcaatac	catactcctc	agcatctcct	gggaattatg	780
taggtectee	aggaggtgga	gggccaccag	gaacacccat	catgcctagt	ccagcagatt	840
caggeocec	tootoataac	atgtatactt	taatqaatqc	agtacctcct	ggacctaaca	900
cacctaattt	treatrage	cctgggtcag	atootcccat	qqqtqqatta	ggaggaatgg	960
actcacatca	catgaatggc	tetttagget	caggagatat	ggacagtatt	tccaagaatt	1020
ctcccaataa	tatgageetg	agtaatcaac	cgggcactcc	aagggatgat	ggcgaaatgg	1080
agagaaattt	cttaaatcct	tttcagagtg	agagttactc	ccctagcatg	acaatgagcg	1140
totgatecat	taccaagtct	cctcatgaaa	accacaqtga	gtcagccctt	cacagaacta	1200
ctacqqaaqa	aaattattca	tcacagtgta	caqttaaaca	aaggaatctc	agtcacacca	1260
aaccaacctt	ttcatttcct	actetetece	ctcttttqtq	aagaaagcgg	gtccagatgt	1320
gattcaaaca	actotacoga	gtggcatatt	agaattgccc	taaactgaac	tgcaaataat	1380
tatatatata	totatatoto	taggaaagag	aatgtactgt	atatgtgtat	gttatacaga	1440
catatacaca	tacatacatt	gacccacagg	acattotaaa	atattatcac	atgacatctt	1500
aagtagaaat	aagtagggac	ttttattcca	tcctttttt	cacgtttaca	ttttaattat	1560
tacaagttgc	tectacece	tecetgaact	attttgtgct	gtgtatatca	ctgctttata	1620
taacttattt	tttaaggtga	actcagatgt	tatggttttg	tatatgtctg	caatcatgga	1680
taggetates	ategettatt	tgagagettt	caaaaaaaaa	aaaaaaaaaa	c	
caggaacaaa						

Human interferon-induced cellular resistance mediator protein (MxB) mRNA, complete cds.

				_		
aagagatgat	ttctccatcc	tgaacgtgca	gcgagcttgt	caggaagatc	ggaggtgcca	60
agtagcagag	aaagcatccc	ccagctctga	cagggagaca	gcacatgtct	aaggcccaca	120
agccttggcc	ctaccggagg	agaagtcaat	tttcttctcg	aaaatacctg	aaaaaagaaa	180
tgaattcctt	ccagcaacag	ccaccgccat	teggcacagt	gccaccacaa	atgatgtttc	240
ctccaaactg	gcagggggca	gagaaggacg	ctgctttcct	cgccaaggac	ttcaactttc	300
tcactttgaa	caatcagcca	ccaccaggaa	acaggagcca	accaagggca	atggggcccg	360
agaacaacct	gtacagccag	tacgagcaga	aggtgcgccc	ctgcattgac	ctcatcgact	420
ccctgcgggc	totgggtgtg	gagcaggacc	tggccctgcc	agccatcgcc	gtcatcgggg	480
accagagete	gggcaagagc	tctgtgctgg	aggcactgtc	aggagtcgcg	cttcccagag	540
gcagcggaat	cgtaaccagg	tgtccgctgg	tgctgaaact	gaaaaagcag	ccctgtgagg	600
catgggccgg	aaggatcagc	taccggaaca	ccgagctaga	gcttcaggac	cctggccagg	660
tggagaaaga	gatacacaaa	gcccagaacg	tcatggccgg	gaatggccgg	ggcatcagcc	720
atgagctcat	cagcctggag	atcacctccc	ctgaggttcc	agacctgacc	atcattgacc	780
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gggacaggac	catcggtatc	ctgaccaaac	cagatctaat	ggacaggggc	actgagaaaa	1020
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tecegttgtt	agaaggacaa	ataagggaga	gccaccagaa	ggcgaccgag	gagetgegge	1320
gttgcggggc	tgacatcccc	agccaggagg	ccgacaagat	gttctttcta	attgagaaaa	1380
tcaagatgtt	taatcaggac	atcgaaaagt	tagtagaagg	agaagaagtt	gtaagggaga	1440
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caactaatac	ccaaaaagtt	aaaaatatta	tccacgaaga	agttgaaaaa	tatgaaaagc	1560
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taggcatcca	cctgaatgcc	tacttcttgg	aaaccagcaa	acgtctcgcc	aaccagatcc	2040
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tqcaqatact	acaggaaaaa	aatcgctatt	cctggctgct	tcaagagcag	agtgagaccg	2160
ctaccaagag	aagaatcctt	aaggagagaa	tttaccggct	cactcaggcg	cgacacgcac	2220
tctqtcaatt	ctccagcaaa	gagatecact	gaagggcggc	gatgcctgtg	gttgttttct	2280
totocotact	cattcattct	aaggggagtc	ggtgcaggat	gccgcttctg	ctttggggcc	2340
aaactcttct	gtcactatca	gtgtccatct	ctactgtact	ccctcagcat	cagagcatgc	2400
atcaggggtc	cacacagget	cagetetete	caccacccag	ctcttccctg	accttcacga	2460
agggatggct	ctccagtcct	tgggtcccgt	agcacacagt	tacagtgtcc	taagatactg	2520
ctatcattct	togotaattt	gtatttgtat	tecettecee	ctacaagatt	atgagacccc	2580
agaggggaa	gatetaggete	aaattcttct	tttgtatgtc	cagtctectg	cacagcacct	2640
gcagcattgt	aactqcttaa	taaatgacat	ctcactgaac	gaatgagtgc	tgtgtaagtg	2700
atogagatac	ctgaggctat	tectcaagec	caggccttgg	acatttagtg	actgttagcc	2760
gatecettte	agatccagtg	gccatgcccc	ctgcttccca	tggttcactg	tcattgtgtt	2820
teceageete	tecaetecee	cgccagaaag	gagectgagt	gattctcttt	tcttcttgtt	2880
tecetaatta	tgatgagett	ccattettet	gttaagtctt	gaagaggaat	ttaataaagc	2940
aaacaaact	t tttaaaaac	a t	5 5		_	
uuugaaact		<i>-</i>				

Human Ro/SSA ribonucleoprotein homolog (RoRet) mRNA, complete cds.

	L	+ a + a a a a + a a	2002002	ccaagaagat	gat.ggaggaa	60
gacccacgcg	teegaaaage	-arggeotea	accascagea	taagcatcaa	ctotogacac	120
gccacctgct	ccatctgcct	gageergarg	tttaaaaacc	caagccaaaa	acaactgagg	180
agctactgcc	acttgtgtat	aacagacccc	cetecattte	atatggatag	cetecgacee	240
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aacaagcagc	tgggaagcct	cattgaagec	tracasagaga	cggatcaaga	catctgctgg	360
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gagaagtett	atctctggag	gctggagaaa	gaagaacaac	agactetgag	cctccaactc	720
gactatgagg	ctggtctggg	gctgaagage	adigaacica	agagccacat	cactttgacc	780
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gotttaacca	gcacagagaa	aataatataa	atcccataag	ggcagacgtt	tggtctgttt	1500
tetteactat	catttcctta	gtagttagac	tagtgctgag	attttagtgg	atatataatt	1560
gatttatgtt	gaatatatgg	acttagcaac	taaaaatacc	acagatggtt	aacctggact	1620
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teagggettt	gatttccaag	ggtcttcagg	tgatgagtag	gggtacccac	aagtcagaag	1740
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tocaattato	caccaactac	atttaaaaca	aaacaaaaca	gaaaaatcaa	aataacattg	1860
actictticcaa	ccactgacat	gttgtttaat	aatctaagcg	gcagtcctgg	aggctaccag	1920
acttactgag	· ttctacctga	gaaacagcca	agcaaagtgt	gagagaaggg	ttaagactgg	1980
cttacaatga	gatgetteaa	atgaaaaggg	aattatgagt	aaaattgaac	tttgatgggg	2040
gattcagttc	tggaaaagaa	tttqqtattt	tecagtetge	taggaccaat	taccttgaaa	2100
tattttaaaa	tctcaqtaaa	tagttattgc	tgaaatggct	gttggcagtt	cttattatga	2160
ttcagagaag	agcaaataga	ccttaacttc	attttgaaaa	agaccaaatt	accatacccg	2220
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tcacaaaatt	actaaatatt	ataatttaga	gttgacataa	aaattgatgg	ccaggcatgg	2340
tageteacge	ctotaatccc	aqaactatqt	gaggetgagg	caggtggatc	accegaggee	2400
aggagt t.caa	caccagectg	gccaacatgg	tgaaaccctg	tctctactaa	aaatacaaaa	2460
attageeggg	catootoota	agggcctgta	acceagetae	tegtgaggee	aaggcaggag	2520
aattocttga	geetgeagea	gctgcagtaa	gccaagatca	tgetgtgeet	caaggaaaaa	2580
aaaaattaat	gtttactgat	atttqttgaa	. gtcctacaac	accacctctg	agaacaggag	2640
aaatgaagga	acagttgtgt	ctagatgtca	. gaggcatggc	tgggcctcca	tetetgeeta	2700
accongratat	aaaagagtto	aaactattqc	ccatgttccc	cagggtcaga	agecetaatt	2760
atgatgatac	agactagatt	gtaagtagta	aqtgaaqqqt	agcagaatat	gccatctttg	2820
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ycacaayaay	Luccicgage	232232222				

Homo sapiens cDNA FLJ10465 fis, clone NT2RP1001616.

actctgctgc	cggcttctcg	gageggeget	gggcgaccag	agcagggtcg	agatgtccta	60
catcccgggc	cagccggtca	ccgccgtggt	gcaaagagtt	gaaattcaca	agctgcgtca	120
aggtgagaac	ttaatcctgg	gtttcagcat	tggaggtgga	atcgaccagg	accettecea	180
gaatcccttc	tctgaagaca	agacggacaa	ggtgaggggg	tctggggtcc	tgggaccgct	240
ccatggggca	caggggcctg	agatggtggg	tetetgette	ctgggcctgc	atggaaggaa	300
cagacttcat	ctctcaaacc	atgctctcta	agaaggcatc	ggaagtgacc	tagtgagaat	360
aaggacgggt	qqqqtqagga	agggctgctc	agacagagcc	caggaggagc	aggaggcggc	420
catcagcagg	gccggtgcat	ggtggtgcag	caactctgcc	ccggctctct	cagaacagtc	480
ctcactgacc	atatgtgctg	ggagaggctg	ggtgcaggga	cagagggacg	gctgagaatg	540
taccatacta	gcttccgctg	tgtgataagg	ggccagtcca	gtgaccacag	ggcttgactt	600
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agctgggaga	gactcactgc	agccaattgg	gaacccatac	tggcattgcc	ccagaggacg	840
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taggctgggg	gcctacttga	atgacctggg	ccccaaagc	cctctgcttc	cagatcccag	960
aggggggga	gctgaggtga	gcctgtgttc	tctcctgggg	ccaggtgaac	ggctgggaca	1020
tgaccatggt	cacacacqac	caggcccgca	agcggctcac	caagcgctcg	gaggaggtgg	1080
tacatctact	gatgacgcgg	cagtcgctgc	agaaggccgt	gcagcagtcc	atgctgtcct	1140
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ccaggccttt	cccgcttttg	cctggctgca	gggttcggct	ccgcccctgc	cccccagccc	1560
tcatatatcc	acaccgcagt	gcctctgccc	ctcgggggac	tggacacaca	tcctgccaga	1620
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caaaaaatac	tggcctcccc	agggtttgcc	ttcttacgga	tttagacgag	gttcgaggct	1740
cacctatcag	ggcagctctc	aggattgtca	ttttcctctt	tgcctgtggg	tttaactttt	1800
gtatttttt	aatcacaagt	ttgatacaaa	atgtttttat	cgt		1843

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Homo sapiens histone 2, H2aa, mRNA (cDNA clone MGC:2238 IMAGE:3536984), complete cds.

ccaggcagga	gtttctctcg	gtgactacta	tcgctgtcat	gtctggtcgt	ggcaagcaag	60		
gaggcaaggc	ccgcgccaag	gccaagtcgc	gctcgtcccg	cgctggcctt	cagttcccgg	120		
tagggcgagt	gcatcgcttg	ctgcgcaaag	gcaactacgc	ggagcgagtg	ggggccggcg	180		
		gtcctcgagt				240		
gcaacqcqqc	tegggacaac	aagaagacgc	gcatcatccc	tcgtcacctc	cagctggcca	300		
tccqcaacga	cgaggaactg	aacaagctgc	tgggcaaagt	caccatcgcc	cagggcggcg	360		
		gtactgctcc				420		
		ccggcccaag				480		
		ctcttttcag				540		
ttaatgotga aaaaaaaaaa aaaaaaa								

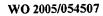
Homo sapiens transcription factor ISGF-3 mRNA, complete cds.

attaaacctc	tcgccgagcc	cctccgcaga	ctctgcgccg	gaaagtttca	tttgctgtat	60
gccatcctcg	agagctgtct	aggttaacgt	tcgcactctg	tgtatataac	ctcgacagtc	120
ttggcaccta	acgtgctgtg	cgtagctgct	cctttggttg	aatccccagg	cccttgttgg	180
ggcacaaggt	ggcaggatgt	ctcagtggta	cgaacttcag	cagcttgact	caaaattcct	240
ggagcaggtt	caccagettt	atgatgacag	ttttcccatg	gaaatcagac	agtacctggc	300
	gaaaagcaag					360
ccgttttcat	gacctcctgt	cacagetgga	tgatcaatat	agtcgctttt	ctttggagaa	420
taacttcttg	ctacagcata	acataaggaa	aagcaagcgt	aatcttcagg	ataattttca	480
ggaagaccca	atccagatgt	ctatgatcat	ttacagctgt	ctgaaggaag	aaaggaaaat	540
	gcccagagat					600
	cagaaagagc					660
	gaaatcaaga					720
aaccttgcag	aacagagaac	acgagaccaa	tggtgtggca	aagagtgatc	agaaacaaga	780
acagctgtta	ctcaagaaga	tgtatttaat	gcttgacaat	aagagaaagg	aagtagttca	840
caaaataata	gagttgctga	atgtcactga	acttacccag	aatgccctga	ttaatgatga	900
	tggaagcgga					960
	ctgcagaact					1020
	aagttggagg					1080
	caagtgttat					1140
ctcgtttgtg	gtggaaagac	agccctgcat	gccaacgcac	cctcagaggc	cgctggtctt	1200
gaagacaggg	gtccagttca	ctgtgaagtt	gagactgttg	gtgaaattgc	aagagctgaa	1260
	aaagtcaaag					1320
	aagttcaaca					1380
caccaatggc	agtetggegg	ctgaatttcg	gcacctgcaa	ttqaaaqaac	agaaaaatgc	1440
	acgaatgagg					1500
tgaaacccaa	ttgtgccagc	ctggtttggt	aattgacctc	qaqacqacct	ctctqcccqt	1560
	tccaacgtca					1620
	gcggaaccca					1680
	tcagaagtgc					1740
	ctgaacatgt					1800
	tggacgaggt					1860
	gaaagcatcc					1920
	atgggcttca					1980
	ttcctgctgc					2040
	cggtcccaga					2100
	ctttctgctg					2160
	attcctgaga					2220
	aagtattact					2280
	actggatata					2340
	accacagaca					2400
	ggctctgtag					2460
	ctctggcgac					2520
	cctgtgtttc					2580
	agtgaatttt					2640
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aacatccaga	tacacccaaa	qtatcaqqac	gagaatgagg	atcetttaga	aaaqqaqaaq	2760
	tctagcaaat					2820
	tggttattta					2880
	tgttttcttt					2940
	aaagccaagt					3000
	gtagggggaa					3060
	aattctgttt					3120
	gctaatatca					3180
	ctgaatacat					3240
	J	- 3 3 -				

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ctcccaaggg	agttaggcta	ttcacaacca	ctcattcaaa	agttgaaatt	aaccatagat	3300
qtaqataaac	tcagaaattt	aattcatgtt	tcttaaatgg	gctactttgt	cctttttgtt	3360
attagggtgg	tatttagtct	attagccaca	aaattgggaa	aggagtagaa	aaagcagtaa	3420
ctgacaactt	gaataataca	ccagagataa	tatgagaatc	agatcatttc	aaaactcatt	3480
		aactgcatat				3540
gcgaatggtt	ccattctctc	tcctgtactt	tttccagaca	cttttttgag	tggatgatgt	3600
		tttacctttt				3660
		ggttcttccc				3720
		accacaacta				3780
		gagttttgtt				3840
		agtgctttcc				3900
					attgaaatga	3960
ctaaaaaaca	aaqaaqacaa	cattaaaaac	aatattgttt	cta		4003



# Homo sapiens mRNA; cDNA DKFZp564K2478 (from clone DKFZp564K2478); complete

atcgtgcctg gctcacataa gcgcttcctg gaagtgaagt	120
ccaggcaget geggeetggg ggttttggag tgateaegaa tgagcaagge gtttgggete	180
ctgaggcaaa tetgteagte cateetgget gagteetege agteeeegge agatettgaa	240
gaaaagaagg aagaagacag caacatgaag agagagcagc ccagagagcg tcccagggcc	300
tgggactace ctcatggeet ggttggttta cacaacattg gacagacetg etgeettaac	360
toottgatto aggtgttogt aatgaatgtg gacttcacca ggatattgaa gaggatcacg	420
gtgcccaggg gagctgacga gcagaggaga agcgtccctt tccagatgct tctgctgctg	480
gagaagatgc aggacagccg gcagaaagca gtgcggcccc tggagctggc ctactgcctg	540
cagaagtgca acgtgccctt gtttgtccaa catgatgctg cccaactgta cctcaaactc	600
tggaacctga ttaaggacca gatcactgat gtgcacttgg tggagagact gcaggccctg	660
tatacgatcc gggtgaagga ctccttgatt tgcgttgact gtgccatgga gagtagcaga	720
aacagcagca tgctcaccct cccactttct ctttttgatg tggactcaaa gcccctgaag	780
acactggagg acgeeetgea etgettette eageeeaggg agttateaag eaaaageaag	840
tgettetgtg agaactgtgg gaagaagace egtgggaaac aggtettgaa getgacecat	900
ttgccccaga ccctgacaat ccacctcatg cgattctcca tcaggaattc acagacgaga	960
aagatetgee actecetgta ettececeag agettggatt teagecagat eettecaatg	1020
aagcgagagt cttgtgatgc tgaggagcag tctggaggg@ agtatgagct ttttgctgtg	1080
attgcgcacg tgggaatggc agactccggt cattactgtg tctacatccg gaatgctgtg	1140
gatggaaaat ggttctgctt caatgactcc aatatttgct tggtgtcctg ggaagacatc	1200
cagtgtacct acggaaatcc taactaccac tggcaggaaa ctgcatatct tctggtttac	1260
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tccatttccg ttcctggatc tacggagtct tctaagagat tttgcaatga ggagaagcat	1380
tgttttcaaa ctatataact gageettatt tataattagg gatattatea aaatatgtaa	1440
ccatgaggcc cctcaggtcc tgatcagtca gaatggatgc tttcaccagc agacccggcc	1500
atgtggetge teggteetgg gtgetegetg etgtgeaaga eattageeet ttagttatga	1560
gcctgtggga acttcagggg ttcccagtgg ggagagcagt ggcagtggga ggcatctggg	1620
ggccaaaggt cagtggcagg gggtatttca gtattataca actgctgtga ccagacttgt	1680
atactggctg aatatcagtg ctgtttgtaa tttttcactt tgagaaccaa cattaattcc	1740
atatgaatca agtgttttgt aactgctatt catttattca gcaaatattt attgatcatc	1800
tcttctccat aagatagtgt gataaacaca gtcatgaata aagttatttt ccacaaaaaa	1860
aaaaaaaaa aaaa	1874

Homo sapiens cDNA FLJ20073 fis, clone COL02320.

annatttoaa	gacaagatgg	gcacctactc	tacaattctq	ataaaaacag	aggtcatcga	. 60
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acgegggaac	aaaagctatc	acctgaataa	aagtcaaatt	atgttggata	tgctaactga	180.
agaaccgaag	ttccatactc	gtatgggaaa	aagtaaattt	ttqcaaqata	tgcacacact	240
gaaccegeee	adacaccaca	atgaacatga	aggtgaaaca	ggaaattggt	tttccccatt	300
tettaaaaa	ttacataaaa	atgaaggaaa	tgaagcagtt	gaagetgtat	tgcttgaaag	360
tattgaagca	ttcaacccaa	atgcattcat	ttgccaagcg	ttqqcaaqac	atttctacat	420
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apattorea:	a doaccaaaaa	aatottooo	aatctataca	i ttataaggga	cttaacaact	3180
222000022	r atatagactt	tagateetaa	tttgagcaaa	a acctaaaato	: aattattagg	3240
caatcagaa	a aatttgaaca	cagactagat	atttgaggat	attaaggtac	tatattattg	3300
	-					

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aagattccat	ggttatgttt	tttaaagagt	tcatgccttt	tagagataca	tactaaagta	3360
tttgtaaata	aatgacatga	tctagaaaaa	aaaaaaaaa	a		3401

Homo sapiens cDNA FLJ10913 fis, clone OVARC1000209, weakly similar to Oryza sativa submergence induced protein 2A mRNA.

-caccccccc	cctgaattca	aacacggcac	ccgcactgcg	cgtcatggtg	ctggcctggt	60
atatoracoa	cacccaaac	gacccgcggc	aaccccaccg	ccccgacccc	ggccgcccag	120
tacacctoga	acaactacaa	caactcaaaa	tgctctactg	qaaqctqqat	gctgacaaat	180
.cgggcccgga	tocagaatta	gaaaagatcc	gaagagagag	qaactactcc	tggatggaca	240
acgagaacga	atocasaoat	aaactaccaa	attatgaaga	aaaqattaaq	atgttctacg	300
tcataaccat	acgettagae	gatgagatcc	gctacatcct	ggatggcagt	gggtacttcg	. 360
aggageaecc	geacceggae	cartogatec	ggatcttcat	ggagaaggga	gacatggtga	420
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egetteetege	tataaaaa	caccegorcea	cagcgtacaa	ccaacccact	gaccattttg	540
tgeggetget	rgrgggagaa	anathtetee	cacagacege	ctaccactoc	tarctaggaa	600
aagcccgcgg	geagracgry	adacticity	taatgactga	ccagoagege	aatcactttc	660
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tetttgettt	tagaggatag	ecetgagget	agattatctt	goodfataaa	gactactega	780
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agttgagtcc	caaatgaaag	tttcatctcc	cgaaatgcag	tteettagat	geecacetgg	960
acgtgatgcc	gegeetgeeg	tgtaagaagg	tgcaatccta	gataacacag	ctagecagat	1020
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cccaccctaa	ggggcacaca	ctgagttgct	tatgccactt	ccttgttcaa	aataaagtaa	
ctgccttaat	cttatactca	tggcttggag	ttaccttata	ttcaggtata	tgtgatattt	1140
tgcctggttt	gttaaaattg	ccccatttag	attccttcta	taattgttct	tatagataag	1200
taatttatat	atgagetgtg	ttagtatttt	tttcagtgtg	agatctctgg	attetteac	1260
aataaaqctq	ttgaatttta	acaggagtat	tagtacataa	attttctact	caacaattcc	1320
gagataggat	tatgcctagt	ttgtcatatc	acagaaaaac	tccaagttaa	cttcatgttt	1380
togaagggca	ggtcgttttt	aaagtatttc	tttttttaac	tggatgaaaa	atcttcatgt	1440
taggattaat	tttcttaatc	acctccacac	tgtacagagg	aaactcaagc	cttaaatgtt	1500
taagtaaact	ctqtctcagt	tttaggatta	aaatacccac	cggtggtgtg	atgatgccat	1560
ataccqcaqq	gettgettet	gtcaagtgtg	actctatctc	agtaattaaa	ataagtgctg	1620
atctactq	- <b>-</b>					1628

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Homo sapiens interferon induced transmembrane protein 1 (9-27), mRNA (cDNA clone MGC:5195 IMAGE:3464598), complete cds.

aaacqacaqq	ggaaaggagg	tctcactgag	caccgtccca	gcatccggac	accacagegg	60
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aagccagaag	atqcacaaqq	aggaacatga	agtagetgtg	ctgggggcac	ccccagcac	180
		tgatcaacat				240
		cectettett				300
		gggacaggaa				360
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_	aaaaaaaaa		5 5			683

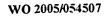
Homo sapiens cDNA: FLJ22242 fis, clone HRC02528.

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ta77f02.x2 NCI\_CGAP\_HSC2 Homo sapiens cDNA clone IMAGE:2050107 3' similar to gb:L19779 HISTONE H2A.1 (HUMAN);, mRNA sequence.

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H. sapiens centromere autoantigen C (CENPC) mRNA, complete cds.

				+attacttac	ceaeaaceta	60
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aaaaaaaaa		-				3132
~~~~~~~~						



Homo sapiens transcription factor ISGF-3 mRNA, complete cds.

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•	ccgttttcat	gacctcctgt	cacagctgga	tgatcaatat	agtcgctttt	ctttggagaa	• 420
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chananaca aagaagaca			ota		4003
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# Homo sapiens ornithine decarboxylase (ODC1) mRNA, complete cds.

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Homo sapiens hephaestin (HEPH) mRNA, complete cds.

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tggctttgtt	tttgggaatt	tacetgaget	gaacargege	gcacagaaac	atgragat	960
gcacttgttt	ggcatgggca	atgaaattga	tgtccacaca	gcatttttcc	cettteteac	1020
gctgactacc	cgtggacacc	acactgatgt	ggctaacate	tttccagcca	tgaacagtca	1080
tgctgagatg	gtgccctggg	aacctggtac	ctggttaatt	agetgeeaag	ccctcctat	1140
ctttcgagat	ggcatgcagg	cactctacaa	ggccaagccc	tgctccatgg	ttcaatooga	1200
ggacctgctc	acaggcaaag	ttcgacagta	eccactgag	gcccatgaga	caggagatat	1260
ctatggcccg	atggggcatg	atgggagtac	tgggaagaat	ttgagagagc	caggeageae	1320
ctcagataag	tttttccaga	agagetecag	ccgaattggg	ggcacttact	ggaaagcgcg	1380
atatgaagcc	tttcaagatg	agacattcca	agagaagatg	catttggagg	aagacaggca	1440
tcttggaatc	ctggggccag	tgatccgggc	tgaggtgggt	gacaccattc	aggugguuu	1500
ctacaaccgt	gcctcccagc	cattcagcat	gcagccccat	ggggtctttt	atgagaaaga	1560
ctatgaaggc	actgtgtaca	atgatggctc	atcttaccct	ggcttggttg	etaageeeee	1620
tgagaaagta	acataccgct	ggacagtccc	ccctcatgcc	ggtcccactg	cicaygatec	1680
tgcttgtctc	acttggatgt	acttctctgc	tgcagatccc	ataagagaca	caaaccccgg	1740
cctggtgggc	ccgctgctgg	tgtgcagggc	tggtgccttg	ggtgcagatg	geaageagaa	1800
aggggtggat	aaagaattct	ttcttctctt	cactgtgttg	gatgagaaca	agagetggta	1860
cagcaatgcc	aatcaagcag	ctgctatgtt	ggatttccga	ctgctttcag	aggararrya	1920
gggcttccaa	gactccaatc	ggatgcatgc	cattaatggg	tttctgttct	ccaaccigcc	1980
caggctggac	atgtgcaagg	gtgacacagt	ggcctggcac	ctgctcggcc	cgggcacaga	2040
gactgatgtg	catggagtca	tgttccaggg	caacactgtg	cagcttcagg	gcatgaggaa	2100
gggtgcagct	atactette	ctcatacctt	tgtcatggcc	accatgeage	Cigacaacci	2160
torgacattt	gagatttatt	accaaacaaa	cagccatega	. gaagcaggga	rgagggcaat	2220
chahaatoto	teceagtate	ctqqccacca	agecacecet	egccaacgct	accaagetge	2280
aagaatotag	tatatcatgg	caqaaqaaqt	agagtgggac	tattgccctg	acceggagerg	2340
ddaacdddaa	tagcacaacc	agtetgagaa	ggacagttat	ggttacattt	teetgageaa	2400
a saratara	retectagatt	ccagatacaa	gaaagctgta	ttcagggaat	acactgatgg	2460
tacattcago	atecetegge	caaqqactgg	accagaagaa	caccegggaa	terraggeree	2520
acttatraaa	gataaaatta	gtgatatcct	gactgtggta	Licaayaaca	acgccagccg	2580
cocctactet	gtgcatgctc	atggagtgct	agaatctact	actgtctggc	cactggctgc	2640
trancetrat	gaggtggtca	cttatcaqtq	gaacatccca	gagaggtetg	geeergggee	2700
castoactct	acttatatt	cctqqatcta	. ttattctgca	i grggareeca	Ccaaggacac	2760
ot at act coc	ctaataaaa	ccttqqctat	. ctqccaaaag	ggcatcctgg	agececatgg	2820
accaccaagt	gacatggate	gggaatttgc	e attgttgttc	tegatetee	atgaaaataa	
orctrogtat	ttqqaqqaaa	atgtggcaac	: ccatgggtcc	caggacccag	geageaceaa	2880
cctacaggat	: caaactttct	togagagcaa	ı taaaatgcat	gcaatcaatg	ggaaactcta	2940
Foccaacett	: aggggtctta	ccatqtacca	. aggagaacga	ı gtggcctggt	. acatgetgge	3000
catgggggaa	gatgtggatg	: tacacaccat	ccactttcat	: gcagagagct	teetetateg	3060
gaatogcgag	aactaccqqq	rcagatgtggt	: ggatctgttc	c ccagggactt	tegaggingi	3120
acceptant out o	gccagcaaco	: ctgggacatc	qctqatgcac	: tgccatgtga	ctgaccacgu	3180
ccatactage	atggagacco	: tcttcactgt	: tttttctcga	a acagaacact	taagecetet	3240
caccatcate	accaaaqaqa	ctgaaaaaq	agtgccccc	agagacatto	g aagaaggcaa	3300
2422302401	· ····					

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L	staggestag	agatececat	aaagaatgtt	gagatgctgg	cctctqtttt	3360
tgtgaagatg	cugggcauge	ttataataat	tattataact	cttootooag	togtttggta	3420
ggttgccatt	agegecacce	Licigotogi	Lyccogge	cttggtggag	agaggttgaa	3480
ccaacatcga	cagagaaagc	tacgacgcaa	taggagguce	atcctggatg	acageeeeaa	3540
gcttctgtct	ttcaaacagt	aacatctgga	gcctggagat	atcctcagga	ageacatety	3600
tagtgcactc	ccaqcaqqcc	atggactagt	cactaacccc	acactcaaag	gggcatgggt	
antagagaag	cagaaggagc	aatcaagctt	atctggatat	ttctttcttt	atttatttta	3660
catogaaata	atatgatttc	actttttctt	tagtttcttt	gctctacgtg	ggcacctggc	3720
catggaaaca	taccttatta	tectacated	caaatttcaa	cagctacatt	atatttcctt	3780
actaagggag	caccccacta	aaatttotag	asatotatoo	ttctcacaaa	gtagagacca	3840
ctgacacttg	gaaggtattg	adatttttag	tatttaaaa	actcaggaaa	tricactitg	3900
agagaaaaac	tcattgattg	ggtttetaet	LCLLCaagg	actcaggaaa	aagaatatag	3960
aactgaggcc	aagtgagctg	ttaagataac	CCacacttaa	actaaaggct	hhtmittata	4020
gcttgatggg	aaattgaagg	taggctgagt	attgggaatc	caaattgaat	cecgattere	4080
cttggcagtg	aactactttq	aagaagtggt	caatgggttg	ttgctgccat	gagcatglac	
aacctctgga	gctagaagct	cctcaggaaa	gccagttctc	caagttctta	acctgtggca	4140
ctgaaaggaa	tottoaotta	cctcttcatq	ttttagacag	caaaccctat	ccattaaagt	4200
acttottaga		<b>-</b>	-			4215

WO 2005/054507 PCT/GB2004/005078

# Human 18S rRNA gene, complete.

	ccgtccgtcc	gtcgtcctcc	tegettgegg	ggcgccgggc	ccgtcctcga	gccccnnnn		60
	necgteegge	cgcgtcgggg	cctcgccgcg	ctctacctac	ctacctggtt	gatcctgcca		120
	gtagcatatg							180
	gtgaaactgc	gaatggctca	ttaaatcagt	tatggttcct	ttggtcgctc	getectetee		240
	tacttggata	actgtggtaa	ttctagagct	aatacatgcc	gacgggcgct	gacccccttc		300
	gcgggggga	tgcgtgcatt	tatcagatca	aaaccaaccc	ggtcagcccc	teteeggeee		360
	cggccggggg	gcgggccgcg	geggetttgg	tgactctaga	taacctcggg	ccgatcgcac		420
	gececegtg	gcggcgacga	cccattcgaa	cgtctgccct	atcaactttc	gatggtagtc		480
	gccgtgccta	ccatggtgac	cacgggtgac	ggggaatcag	ggttcgattc	cggagaggga		540
	gcctgagaaa	cggctaccac	atccaaggaa	ggcagcaggc	gcgcaaatta	cccactcccg		600
		gtagtgacga						660
	aatgagtcca	ctttaaatcc	tttaacgagg	atccattgga	gggcaagtct	ggtgccagca		720
	gccgcggtaa	ttccagctcc	aatagcgtat	attaaagttg	ctgcagttaa	aaagctcgta		780
	gttggatctt	gggagcgggc	gggcggtccg	ccgcgaggcg	agccaccgcc	cgtccccgcc		840
	ccttgcctct	eggegeeece	tcgatgctct	tagctgagtg	teeegegggg	cccgaagcgt		900
	ttactttgaa	aaaattagag	tgttcaaagc	aggcccgagc	cgcctggata	ccgcagctag		960
	gaa'taatgga	ataggaccgc	ggttctattt	tgttggtttt	cggaactgag	gccatgatta		1020
		ccgggggcat						1080
	aagaċggacc	agagcgaaag	catttgccaa	gaatgttttc	attaatcaag	aacgaaagtc .,	•	1140
	ggaggttcga	agacgatcag	ataccgtcgt	agttccgacc	ataaacgatg	ccgaccggcg ·	. :	1200
	atgcggcggc	gttattccca	tgacccgccg	ggcagcttcc	gggaaaccaa	agtctttggg		1260
	ttccgggggg	agtatggttg	caaagctgaa	acttaaagga	attgacggaa	gggcaccacc		1320
		cctgcggctt	_		_			1380
	ggacaggatt	gacagattga	tagctctttc	tcgattccgt	gggtggtggt	gcatggccgt		1440
٠		tggagcgatt						1500
	taactagtta							1560
	cgttcagcca	cccgagattg	agcaataaca	ggtctgtgat	gcccttagat	gtccggggct		1620
	gcacgcgcgc	tacactgact	ggctcagcgt	gtgcctaccc	tacgccggca	ggcgcgggta		1680
		ccccattcgt						1740
		aagtgcgggt						1800
		ctactaccga						1860
	gtcggcccac				_	ctagaggaag		1920
	taaaagtcgt	aacaaggttt	ccgtaggtga	acctgcggaa	ggatcatta			1969

Homo sapiens cell death regulator aven mRNA, complete cds.

gggcgtctcc gcagctcggc	teceaeacae	tcaqcaccac	cagcggcgcc	agatgcaggc	60
ggagcgagga gctcggggag	accatagaca	acaaccaaac	cqcggccggc	ctggcggaga	120
togccacage gageggeeeg	gagccgcagc	gacagtagcc	agagggggg	gcggaggcgg	180
cggcggggac ggaggcggac	accaaaacca	taaccataac	cagagettee	geggegeteg	240
cggaggccga ggaggaggag	acaccccaca	aggragecge	caddadccaa	gaggetgggg	300
cgcagggcc agcgcgccgg	ttgaagatga	caccatoca	gagacctatg	gagaagagaa	360
tgatgaacag ggaaattatt	ctaaaagaaa	gattgtctct	aactgggatc	gatatcaaga	420
tattgaaaaa gaggtcaata	atgaaagtgg	agagtcacag	aggggaacag	atttcagtgt	480
cctccttagc tctgcagggg	acquaagegg	acantteen	tttgctgagg	agaaagaatg	540
ggatagtgaa gcttcttgtc	Casascaca	ttcagcattt	tatotogata	gtgagttatt	€00
ggatagtgaa gettettyte ggttegagee etteaagage	taaaacagaa	cctccactc	aacottocto	ccgaactggt	660
ggttegagee etteaagage	rgetteetes	cottogacco	aacacaacto	atgatggcaa	720
ccagggtaca gttcctttag	aggereecta	ggcgaaacca	aassaaaaas	ccatctttga	780
gggattaggg atgcagttaa	aggggccctt	ggggcccgga	99449999	ceaccccaa	840
gctgaaatct gtggctgctg	gctgccctgt	grtgerggge	aaagacaacc	caageeeggg	900
tccttcaagg gattctcaga	aacccacttc	cccactgcag	tcagcaggag	accatttgga	960
agaagaacta gatctgttgc	ttaatttaga	tgcacctata	aaagagggag	ataacatett	1020
accagatcag acgtctcagg	acctgaaatc	caaggaagat	ggggaggtgg	tccaagagga	
agaagtttgt gcaaaaccat	ctgtgactga	agaaaaaaac	atggaacctg	agcaaccaag	1080
tacctccaaa aatqttaccg	aggaagagct	ggaagactgg	ttggacagca	tgatttccta	1140
aaaagggga aaaaagtgc	tgaagcaaat	cttggttgcc	ttctaacggc	aggtgggcat	1200
aaggetgtee tteaggacea	gccagtttac	aagcatgtct	caagctagtg	tgttccatta	1260
tgctcacagc agtaaatgcc	tacctctgtg	tttgacatct	gaaagaatac	attgaagcag	1320
cttgttgcat ttgtttttct	ggcttagtaa	tctaatagat	ttccttaagg	gcaggagata	1380
gactctggcc cttgtttcta	geeteettee	ttacagtatt	tacaacatag	ccagtgttta	1440
cagcatagca gatgctgctg	ctggttaaga	gaatagatgc	aaacaaqqca	tgcatttggc	1500
caaaataaac aaatgctggt	ctatacasa	aannaaaaaa	aaaaaaaaa	- <del></del>	1549
caaaacaaac aaargcryg	cegeceaaaa	- uammaaaaaa			

Homo sapiens interferon, gamma-inducible protein 16, mRNA (cDNA clone MGC:9466 IMAGE:3914632), complete cds.

•						
gcagaatagg	agcaagccag	cactagtcag	ctaactaagt	gactcaacca	aggccttttt	60
tagttattat	ctttqcagat	acttcatttt	cttagcgttt	ctggagatta	Caacaccccg	120
ecettecett	tetaggaact	ttactgattt	atctccccc	tcacacaaat	aagcartgar	180
tectgcattt	ctgaagatet	caagatctqq	actactgttg	aaaaaatttc	cagugagguu	240
anattatata	totaaagato	ggaaaaaaat	acaaqaacat	tgttctacta	aaayyaccay	300
acctoatosa	toattatcat	tttagaatgg	ttaaqtcctt	actgagcaac	gatttaaaac	360
++-2+++222	aatgagagaa	gagtatgaca	aaattcagat	Egetgatity	acggaagaaa	420
not tracatada	tastactaat	ttgggcaaac	taataaaaat	tttcgaagat	ataccaacge	480
++maamacct	ggctgaaact	cttaaaaaaq	aaaagttaaa	agtaaaagga	Coagecetat	540
4224224A	паапааппаа	ataaatacta	cttcacctgc	accetecaca	ageageaceg	600
+~~~~~d+~~	DSDSDSSSS	gcaactcctg	gageteagaa	aagaaaaaa	Ccaaccaaag	660
andactaa	acccaaaggg	agtaaggtgt	ccqaggaaca	gacteageer	Coccocces	720
andandedd.	catotecaca	accatagacc	<b>qttccccatc</b>	Coccaagacc	ccaccgccag	780
atanaccoaa	cacttcttca	actgagaacc	cqaaaacagt	ggccaaargr	caggiaacic	840
	tottotocaa	aaacgcccag	tgatagtgaa	ggtactgagt	acaacaaagc	900
catttgaata	tgagacccca	gaaatggaga	aaaaaataat	gullargu	acageggeea	960
0202020202	ottottocat	ataaaaattt	taaacaccag	cttgaaggag	aaatttaatg	1020
gaaagaaat	-catcatcata	tcagattatt	togaatatga	tagteteeta	gaggicaatg	1080
angaitetae	totatotoaa	octootccta	accaaacgtt	tgaggttcca	aataaaatta	1140
tasacarage	aaaggaaact	ctgaagattg	atattcttca	caaacaagci	CCayyaaaca	1200
.++~+atataca	cotattato	ctacataaga	aaacaqtaaa	ccagaagacc	acaacccacg	1260
aaattcacca	tgatagagga	aaaatggatg	tagtggggac	aggacaatgt	Cacaacaccc	1320
antata aaa	aggagataag	ctccaacttt	tetactites	acttagaaaa	aagaaccaga	1380
totcaaaact	gatttcagaa	atocatagtt	ttatccagat	aaagaaaaaa	acaaacccga	1440
gassestra	-ccccaagage	atgaagctac	cccaggaaca	gagecageee	CCauaccccc	1500
asasaaccea	cacaacette	cctgagagcc	atcttcqqac	tecteagary	CCaccacac	1560
atecatecaa	caghttette	accaagaaaa	qtqaagacac	aatctccaaa	atgaatgatt	1620
tratraggat	gcagatactq	aaggaaggga	gccattttcc	aggaccgccc	acgaccagea	1680
taggggggg	tgagagccat	ccccacactc	ctcagatgcc	tccatcaaca	Ccaagcagca	1740
atttattaac	cacqttqaaa	ccaagactga	agactgaacc	tgaagaaguu	tecatagaag	1800
acadt accca	gagtgacete	aaagaagtga	tggtgctgaa	egcaacayaa	Cacceguac	1860
atragreraa	agaggagaag	aaaatottto	atqccacagt	ggcaactyay	aatgaagtet	1920
taggagtgaa	ggtttttaat	attgacctaa	aqqaqaagtt	caccccaaay	aayaccaccy	1980
ncat accasa	tratotttoc	cacaataat	tcctggaggt	atateettee	acaccegegg	2040
atastatas s	tactaaccaa	. aacatggaga	tcccaaaagg	attgattaga	agegeeageg	2100
taactectaa	aatcaatcac	rctttactcac	aaactaaagg	aagtttegeg	aacggggcgc	2160
ttgaggtaga	taaqaaaaat	ataaqqqqtq	aattcactta	ttatgaaala	Caayacaaca	2220
cacccaacat	gaaagtagte	ı atacataqac	gactgaccac	aatcaactgt	gaggaaggag	2280
ataaactcaa	actcacctgo	: tttgaattgg	caccqaaaag	tgggaatacc	ggggagerga	2340
antatat ant	· tcatagtcac	: atcaaggtca	tcaaqaccac	gaaaaacaay	aaayacacac	2400
	, ttopaotato	r gaaacttcac	cadacttttt	CTTCLadaal	Ciggaiguea	2460
++anaget as	tatttataa	gataaggtet	aaqtqcctaa	aaaaatytac	acacaccegg	2520
- Francisco	acactataca	l tacacaccac	catatatact	ayctyttaat	Cocacagaac	
agagtattac	, gagtgetttt	ttaattttt	acagetete	tttaataaa	tggcacaccc	2640
tocatctaca	acttctataa	tttgaaaaaa	taaataaaca	ttatctttt	tgtgaaaaaa	2700
aaaaaaaaa		-	•			2709
~~~~~~~						

Homo sapiens guanylate binding protein 1, interferon-inducible, 67kDa, mRNA (cDNA clone MGC:3949 IMAGE:3606865), complete cds.

ggagtcagtg atttgaac	ga agtactttca	gtttcatatt	actctaaatc	cattacaaat	60
ctgcttagct tctaaata	att tcatcaatga	ggaaatccca	gccctacaac	ttcggaacag	120
tgaaatatta gtccaggg	gat ccagtgagag	acacagaagt	gctagaagcc	agtgctcgtg	180
aactaaggag aaaaagaa	aca gacaagggaa	cagcctggac	atggcatcag	agatccacat	240
gacaggccca atgtgcct	ca ttgagaacac	taatgggcga	ctgatggcga	atccagaagc	300
tctgaagatc ctttctgo	ca ttacacaged	tatggtggtg	gtggcaattg	tgggcctcta	360
ccgcacaggc aaatccta	acc tgatgaacaa	gctggctgga	aagaaaaagg	gcttctctct	420
gggctccacg gtgcagto	etc acactaaagg	aatctggatg	tggtgtgtgc	cccaccccaa	480
gaagccagge cacatect					540
tgacaaccag aatgacto					600
gtacaatagc ataggaad	ca tcaaccagca	ggctatggac	caactgtact	atgtgacaga	660
gctgacacat agaatccg	gat caaaatcctc	acctgatgag	aatgagaatg	aggttgagga	720
ttcagctgac tttgtgag	get tetteecaga	ctttgtgtgg	acactgagag	atttctccct	780
ggacttggaa gcagatgg					840
gctgaagaaa ggtaccag					900
gaaattette eeaaagaa	aaa aatgctttgt	ctttgatcgg	cccgttcacc	gcaggaagct	960
tgcccagctc gagaaact	ac aagatgaaga	gctggacccc	gaatttgtgc	aacaagtagc	. 1020
agacttctgt tcctacat	ct ttagtaatto	caaaactaaa	actctttcag	gaggcatcca	1080
ggtcaacggg cctcgtct					1140
ggatctgccg tgcatgga					1200
agtgcaaaag gctattgo					1260
agaaageete caggaget					1320
cttcatcagg agttcctt					1380
gctagaaaaa aagcgggg					1440
ctcaggttta cttcaggt					1500
ttcgaaacca gggggcta					1560
ctatgaggaa ccgaggaa					1620
caaggagtct atgactga					1680
ggagattgaa gtggaacg	gtg tgaaagctga	gtctgcacag	gcttcagcaa	aaatgttgca	1740
ggaaatgcaa agaaagaa	atg agcagatgat	ggaacagaag	gagaggagtt	atcaggaaca	1800
cttgaaacaa ctgactga	aga agatggagaa	cgacagggtc	cagttgctga	aagagcaaga	1860
gaggaccctc gctcttaa	aac ttcaggaaca	ggagcaacta	ctaaaagagg	gatttcaaaa	1920
agaaagcaga ataatgaa					1980
ggcatgtacc ataagcta	aaa gaccagagco	ttcctgtcac	ccctaaccaa	ggcataattg	2040
aaacaatttt agaattt	gga acaagcgtca	ctacatttga	taataattag	atcttgcatc	2100
ataacaccaa aagtttat	taa aggcatgtgg	tacaatgatc	aaaatcatgt	tttttcttaa	2160
aaaaaaaaa aaaaaa					2176

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Homo sapiens interferon induced transmembrane protein 1 (9-27), mRNA (cDNA clone MGC:5195 IMAGE:3464598), complete cds.

aaacgacagg	~~~~~~~~	tataactaaa	caccotocca	geat.ccggac	accacagegg	60
aaacgacagg	ggaaaggagg	coccaccyay	caccycccca	9000009900		120
cccttcgctc	cacgcagaaa	accacacttc	tcaaaccttc	actcaacact	teetteecca	
aagccagaag	atocacaago	aggaacatga	gatagetata	ctgggggcac	cccccagcac	180
aagccagaag			55 55 55	acctecator	coaccatot	240
catectteca	aggtccaccg	igaicaacai	ccacagogag	accecegege	Cogacoaca	200
catctaatec	ctattcaaca	ccctcttctt	gaactggtgc	tgtctgggct	tcatagcatt	300
cgcccggccc	-tanaatata	aaaaaaaaaaa	gatgattage	gacgtgaccg	gggccaggc	360
cgcctactcc	gegaageera	yyyacayyaa	gatggttggt	agogogueog	555000055	420
chatgeetee	accqccaagt	gcctgaacat	ctgggccctg	attctgggca	tecteatgae	
	atastattas	tggtattcgg	ctctgtgaga	ototaccata	ttatqttaca	480
cattggattc	accougate	rageaccegg	ccccacarar	500000000000000000000000000000000000000	+++====+==	540
gataatacag	qaaaaacggg	gttactagta	gccgcccata	geetgeaace	tttgcactcc	
3-tt	actacacata	caractagaa	ctattacccc	taccccctta	gtcctgcccc	600
actguguat	gerggeeerg	0009009555	0050050000		eat age agt a	660
tagatacage	agtttatacc	cacacacctg	tetacagtgt	Cattedatad	agtgcacgtg	
cttgtgaaaa						683
CLLGLGaaaa	adduddddada					

Homo sapiens transcription factor ISGF-3 mRNA, complete cds.

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		. tattttatt	- actitaaqte	, taactoocac	ttttccattg	gillacelgi	2940
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	aataaaaat s	ortaatatca	a atagaaggat	ctacatttc	: aaattcacaa	guiguguing	3180
		r ctoaatacat	t totactttca	i tettaateaa	: atacaattat	Littacaget	3240
	atatocaday	, organizate	ttcacaacca	ctcattcaa	agttgaaatt	aaccatagat	3300
	-ccccaaggg	, agecaggee			- <b>-</b>		

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Homo sapiens phospholipid scramblase 1, mRNA (cDNA clone IMAGE:4253596), complete cds.

```
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                                                                     420
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                                                                    1080
1140
                                                                    1143
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Homo sapiens metalloprotease disintegrin cysteine-rich protein, secreted form mRNA, complete cds.

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tactgtggga	tgggacagaa	ataaaaaaaa	aaaaaaaaa	aaaaaaa		2087

WO 2005/054507 PCT/GB2004/005078

Homo sapiens matrix metalloproteinase 7 (matrilysin, uterine), mRNA (cDNA clone MGC:3913 IMAGE:3545760), complete cds.

	gtccaagaac	aattgtctct	ggacggcagc	tatgcgactc	accgtgctgt	gtgctgtgtg	60	
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# Homo sapiens cDNA FLJ10650 fis, clone NT2RP2005853

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adycadado				•		

# Homo sapiens transcription factor ISGF-3 mRNA, complete cds

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### WO 2005/054507

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teteagette	cacacagacg	cattaaaaac	aatattottt	cta		4003

Homo sapiens RNA helicase (RIG-I) mRNA, complete cds.

10 Sup-1-1-1	
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	120
The second section of the section of	180
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	420
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	660
	720
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gtgcaatctt gtcatccttt atgagtatgt gggcaatgtc atcaaaatga tccaaaccag	2340
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The state of the s	2640
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#### WO 2005/054507

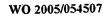
Homo sapiens melanoma differentiation associated protein-5 (MDA5) mRNA, complete cds.

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### PCT/GB2004/005078

## WO 2005/054507

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tgattaatgt attcattace	Clacagaace	940		J J	3380
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Homo sapiens signal transducer and activator of transcription 1, 91kDa, transcript variant beta, mRNA (cDNA clone MGC:3493 IMAGE:3627218), complete cds.

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Homo sapiens cDNA: FLJ21350 fis, clone COL02751.

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	aaaaaaaaa					1765

# Homo sapiens IFI16b (IFI16b) mRNA, complete cds.

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### Homo sapiens mRNA for STAT induced STAT inhibitor-2, complete cds.

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Homo sapiens transcription factor ISGF-3 mRNA, complete cds. 60 attaaacete tegeegagee ceteegeaga etetgegeeg gaaagtttea tttgetgtat gecatecteg agagetgtet aggttaacgt tegeactetg tgtatataac etegacagte 120 ttggcaccta acgtgctgtg cgtagctgct cctttggttg aatccccagg cccttgttgg 180 ggcacaaggt ggcaggatgt ctcagtggta cgaacttcag cagcttgact caaaattcct 240 ggagcaggtt caccagcttt atgatgacag ttttcccatg gaaatcagac agtacctggc 300 acagtggtta gaaaagcaag actgggagca cgctgccaat gatgtttcat ttgccaccat 360 ccgttttcat gacctcctgt cacagctgga tgatcaatat agtcgctttt ctttggagaa 420 taacttettg ctacagcata acataaggaa aagcaagegt aatetteagg ataattttea 480 ggaagaccca atccagatgt ctatgatcat ttacagctgt ctgaaggaag aaaggaaaat 540 tetggaaaac geccagagat ttaatcagge teagtegggg aatatteaga geacagtgat 600 gttagacaaa cagaaagagc ttgacagtaa agtcagaaat gtgaaggaca aggttatgtg 660 720 tatagagcat gaaatcaaga gcctggaaga tttacaagat gaatatgact tcaaatgcaa 780 aaccttgcag aacagagaac acgagaccaa tggtgtggca aagagtgatc agaaacaaga 840 acagotgtta otcaagaaga tgtatttaat gottgacaat aagagaaagg aagtagttca caaaataata gagttgctga atgtcactga acttacccag aatgccctga ttaatgatga 900 actagtggag tggaagcgga gacagcagag cgcctgtatt gggggggccgc ccaatgcttg 960 cttggatcag ctgcagaact ggttcactat agttgcggag agtctgcagc aagttcggca 1020 geagettaaa aagttggagg aattggaaca gaaatacace tacgaacatg accetateac 1080 aaaaaacaaa caagtgttat gggaccgcac cttcagtctt ttccagcagc tcattcagag 1140 ctcgtttgtg gtggaaagac agccctgcat gccaacgcac cctcagaggc cgctggtctt 1200 gaagacaggg gtccagttca ctgtgaägtt gagactgttg gtgaaattgc aagagctgaa 1260 ttataatttg aaagtcaaag tcttatttga taaagatgtg aatgagagaa atacagtaaa 1320 aggatttagg aagttcaaca ttttgggcac gcacacaaaa gtgatgaaca tggaggagtc 1380 caccaatggc agtctggcgg ctgaatttcg gcacctgcaa ttgaaagaac agaaaaatgc 1440 tggcaccaga acgaatgagg gtcctctcat cgttactgaa gagcttcact cccttagtit 1500 tgaaacccaa ttgtgccagc ctggtttggt aattgacctc gagacgacct ctctgcccgt 1560 tgtggtgatc tccaacgtca gccagctccc gagcggttgg gcctccatcc tttggtacaa 1620 catgctggtg gcggaaccca ggaatctgtc cttcttcctg actccaccat gtgcacgatg 1680 ggctcagctt tcagaagtgc tgagttggca gttttcttct gtcaccaaaa gaggtctcaa 1740 tgtggaccag ctgaacatgt tgggagagaa gcttcttggt cctaacgcca gccccgatgg 1800 tctcattccg tggacgaggt tttgtaagga aaatataaat gataaaaatt ttcccttctg 1860 getttggatt gaaageatee tagaacteat taaaaaacae etgeteeete tetggaatga 1920 tgggtgcatc atgggcttca tcagcaagga gcgagagcgt gccctgttga aggaccagca 1980 geeggggaee tteetgetge ggtteagtga gageteeegg gaaggggeea teacatteae 2040 atgggtggag cggtcccaga acggaggcga acctgacttc catgcggttg aaccctacac 2100 gaagaaagaa ctttctgctg ttactttccc tgacatcatt cgcaattaca aagtcatggc 2160 tgctgagaat attcctgaga atcccctgaa gtatctgtat ccaaatattg acaaagacca 2220 tgcctttgga aagtattact ccaggccaaa ggaagcacca gagccaatgg aacttgatgg 2280 ccctaaagga actggatata tcaagactga gttgatttct gtgtctgaag ttcacccttc 2340 tagacticag accacagaca accigcioco catgioloci gaggagittig acgaggigto 2400 teggatagtg ggetetgtag aattegacag tatgatgaac acagtataga geatgaattt 2460 ttttcatctt ctctggcgac agttttcctt ctcatctgtg attccctcct gctactctgt 2520 tectteacat cetgtgttte tagggaaatg aaagaaagge cageaaatte getgeaacet 2580 gttgatagca agtgaatttt tctctaactc agaaacatca gttactctga agggcatcat 2640 gcatcttact gaaggtaaaa ttgaaaggca ttctctgaag agtgggtttc acaagtgaaa 2700 aacatccaga tacacccaaa gtatcaggac gagaatgagg gtcctttggg aaaggagaag 2760 ttaagcaaca tctagcaaat gttatgcata aagtcagtgc ccaactgtta taggttgttg 2820 2880 gataaatcag tggttattta gggaactgct tgacgtagga acggtaaatt tctgtgggag aattottaca tgttttcttt gctttaagtg taactggcag ttttccattg gtttacctgt 2940 gaaatagttc aaagccaagt ttatatacaa ttatatcagt cctctttcaa aggtagccat 3000 catggatctg gtagggggaa aatgtgtatt ttattacatc tttcacattg gctatttaaa 3060 gacaaagaca aattotgttt ottgagaaga gaatattago tttactgttt gttatggott 3120 aatgacacta gctaatatca atagaaggat gtacatttcc aaattcacaa gttgtgtttg 3180 atatocaaag otgaatacat totgotttoa tottggtoac atacaattat ttttacagtt 3240 ctcccaaggg agttaggcta ttcacaacca ctcattcaaa agttgaaatt aaccatagat 3300 gtagataaac tcagaaattt aattcatgtt tettaaatgg getaetttgt eetttttgtt 3360

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Homo sapiens pancreas sodium bicarbonate cotransporter mRNA, complete cds.

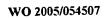
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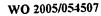
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	JJ J	-	_			

Homo sapiens interferon stimulated T-cell alpha chemoattractant precursor, mRNA, complete cds.

ctccttccaa gaagagcagc aaagctgaag tagcagcaac agcaccagca gcaacagcaa	t 160
aaaacaaaca tgagtgtgaa gggcatggct atageettgg etgtgatatt gtgtgetaca	
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# Homo sapiens mRNA; cDNA DKFZp586J0323 (from clone DKFZp586J0323)

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cilaaadaa	Ladadadadada	•				

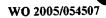


Homo sa	piens cDNA	FLJ20637 II	s, clone Ka	103212.		
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ctgttatttt	cagtgatttt	ccatttatct	ttaattcgct	atccaaaatt	aaattattgc	180
aagctgattc	acatataaag	atgcagatgt	cagaaaagaa	agcatacatg	cttatgcatg	240
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	aaaaaaaaa					· 2010

Homo sapiens sodium bicarbonate cotransporter (HNBC1) mRNA, complete cds.

		•				
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Human BRCAl-associated RING domain protein (BARD1) mRNA, complete cds.

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Human 18S rRNA gene, complete.

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		ttggatggtt				1860
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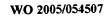


Human mRNA for 56-K	Da protein induced	by interfer	on	
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qx82h04.x1 NCI\_CGAP\_GC6 Homo sapiens cDNA clone IMAGE:2009047 3', mRNA sequence.

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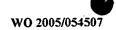
Human interferon-induced cellular resistance mediator protein (MxA) mRNA, complete cds.

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. 5	-					



Homo sapiens cDNA: FLJ21726 fis, clone COLF1088.

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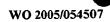


xw86e11.x1 NCI\_CGAP\_Pan1 Homo sapiens cDNA clone IMAGE:2834924 3', mRNA sequence.

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Human 71 kDa 2'5' oligoadenylate synthetase (p69 2-5A synthetase) mRNA, complete cds.

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Homo sapiens cDNA FLJ20035 fis, clone COL00213.

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ctggccgtgc	tggaagaaga	ggtcaagacc	tgatgggaga.	tgtatatttc	tttgatattc	120
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	gttttatcaa					660
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	aaaccatgtt					960
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	caaacatggt					1080
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	aaaaaatgcg					1560
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	tactttttaa					1800
	ttgtaattgt				aaagtgggtt	1860
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Homo sapiens monocarboxylate transporter 2 (hMCT2) mRNA, complete cds.

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			tatgtacgca			360
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			gcaacccgcc			540
			attggccatg			600
			ttttaatact			660
			ctgtgtggct			720
			aaataagact			780
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aaaa	_			•		2104



Homo sapiens interferon-induced protein 44, mRNA (cDNA clone MGC:24007

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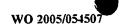
601067066F1 NIH\_MGC\_10 Homo sapiens cDNA clone IMAGE:3453257 5', mRNA sequence.

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			gaagcccccg			660
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		ggcaaaagac		•	•	756



Human glutamate receptor subunit (GluH1) mRNA, complete cds.

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zn32e02.s1 Stratagene endothelial cell 937223 Homo sapiens cDNA clone IMAGE:549146 3', mRNA sequence.

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C						601



Homo sapiens mRNA expressed in osteoblast, complete cds.

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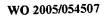
Homo sapiens mRNA for C110RF25 gene

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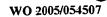
# Homo sapiens isopentenyl-diphosphate delta isomerase, mRNA (cDNA clone

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Human prostaglandin endoperoxide synthase mRNA, complete cds.

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coccocadad	ccagatggct	ataaaccaaa	aggtgtttgg	getgetteet	gggerearge	900
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accccacctg	gggcgargag	cagcellece	agaogacoog	togetattte	retgeagetga	1080
ccatcaagat	tgtcatcgag	gagtacgtgc	agcagccgag	Lygotatte	ctgcagctga	

aatttgaccc agagetgetg tteggtgtee agttecaata cegeaacege	attgccatgg	1140.
agttcaacca tctctaccac tggcaccccc tcatgcctga ctccttcaag	gtgggctccc	1200
aggagtacag ctacgagcag ttcttgttca acacctccat gttggtggac	tatggggttg	1260
aggccctggt ggatgccttc tetegecaga ttgctggecg gateggtggg	ggcaggaaca	1320
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agetegtagg agagaaggag atggcagcag agttggagga attgtatgg	gacattgatg	1500
cgttggagtt ctaccctgga ctgcttcttg aaaagtgcca tccaaactc	atctttgggg	1560
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gttctccgga gtactggaag ccgagcacat ttggcggcga ggtgggctt	aacattgtca	1680
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totgagggc aggaaagcag cattotggag gggagagctt tgtgcttgtg	attccagagt	1860
gctgaggcca gggctgatgg tcttaaatgc tcattttctg gtttggcatg	atgagtatta	1920
gggttgacat ttagaacttt aagteteace cattatetgg aatattgtg	ttctctttat	1980
tettecagaa tgetgaacte ettgttagee etteagattg ttaggagtg	ttctcatttq	2040
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gtacacagt cattetagga tgtggageta ctgatgaaat ctgctagaa	attaggggt	2160
tettattttg cattecagaa tettgaettt etgattggtg atteaaagt	ttatattccc	2220
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tggctgatga tccagaacag tggctcgtat cccaaacceg ccagaccag	atectaaggt	2340
atgtggattt gattcatttt cctgttcagt gagatatcat agagacgga	a actoquatot	2400
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tettettggg acceccacta agaccetggt etgaggatgt agagagaac	tgactcatgg	2520
attcacgcca ttggttggaa gctaccagag ctctatcccc atccaggtc		2554
cagetgttte teatgaaget aataaaatte geee		233 -



602381868F1 NIH\_MGC\_93 Homo sapiens cDNA clone IMAGE:4499393 5', mRNA sequence.

tgtgaataga -	caagaagctg	tactatatgt	gctctctcag	tggcaacaat	gaagttttgc	60
aattctagaa	cttggatttt	ttttttaaca	aaagtcccaa	aacaccaaaa	atgtaaacaa	120
gataagagat 1	taatattgta	gtgatgtaat	ttaattaaag	ttatattttg	ggttaatttt	180
aacaactgaa	gtcttattgt	tgaaacttat	tttcaacaaa	actgtgcagt	taaatttgta	240
tacgtattca	catactgaaa	gatgaaccgt	taaaatagca	cttaatttgt	gtttcttcaa	300
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gaactcaatg	acttgtcatg	aggttttcat	atgagctaca	cattgtgtac	attgatġgtt	420
ttttatttt	acataaatcc	attctgtcat	tttcaacttt	atatataaat	ctccaatgtt	480
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aaaaaaaaa	aaaaaaaaa	agggggggg	ggaaaaaaaa	accacggggg	gcacaaatct	660
atccgccacc	cacgtttaga	tcaaaggggc	cccaagagag	agacaaaaga	aagcgacggc	720
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acacacaaa	aacgagaaca	aacaggaccg	tgacaccacc	tgcgattgcc	taataaaaag	840
gcagaaacgg :	cacgcacagc	gacgagcacg	cagcagaaac	accacacgca	gcaccatgta	900
C .						901

PCT/GB2004/005078

## WO 2005/054507

Homo sapiens mRNA for quinolinate phosphoribosyl transferase, complete cds.

atggacgctg	aaggcctggc	gctgctgctg	ccgcccgtca	ccctggcagc	cctggtggac	60
agetggetee	gagaggactg	cccagggctc.	aactacgcag	ccttggtcag	cggggcaggc	120
ccctcacaga	caacactata	ggccaaatcc	cctggggtac	tggcagggca	gcctttcttc	180
gatgccatat	ttacccaact	caactgccaa	gtctcctggt	tectecega	gggatcgaag	240
ctaataccaa	togccagagt	gaccaagate	cagaacccta	cccactgcct	gctgctgggg	300
ceggegataa	ccctcaacac	actaacceac	tacaataaca	ttqccagtgc	tgeegeeget	360
gaacgggcgg	ccaccaaaaa	gaccaactaa	actoggcaco	tagcaggcac	gaggaagacc	420
acaccagast	tecaactaat	ggagaagtat	agactectag	tagacagaac	cgcctcgcac	480
coctacoacc	toggagget	ggtgatgttg	aaqqataacc	atqtqqtgcc	ccccggtggc	540
atacacaaca	caatacaaac	ggccagacag	acaactaact	tegetetgaa	ggtggaagtg	600
gragagaaga	acctacada	gatcatccag	gcagctgagg	ctagcaccaa	ccttgtcctg	660
gaacgcagca	traarcrara	ggagetgeag	cccacaacca	ccacactasa	ggcccagttc	720
ecasatataa	ctatagecaga	cantogggg	atcaccetgg	acaacctccc	ccagttctgc	780
ccgagegegg	tagacgtcat	ct-ccatagaa	atgctgaccc	aggcggtccc	agcccttgat	840
gggeegeaca	agacyttat	caaagaggtg	actocaatac	ccaaaatcca	ctac	894
LLCLCCCCCC	ageegetege	caaagaggeg	2000000			



Homo sapiens mRNA for cytochrome P-450 HFLa, complete cds.

gtgatggatc t	catcccaaa	cttggccgtg	gaaacctggc	ttctcctggc	tgtcagcctg	. 60
atactcctct a						120
gggcccacac c	ctctgccttt	tttgggaaat	gctttgtcct	tccgtaaggg	ctattggacg	180
tttgacatgg a	aatgttataa	aaagtataga	aaagtctggg	gtatttatga	ctgtcaacag	240
cctatgctgg c						300
tetgtettea e						360
atagctgagg a	atgaagaatg	gaagagaata	cgatcattgc	tgtctccaac	attcaccage	420
ggaaaactca a						480
ctgaggcggg a						540
agcatggatg t						600
caagacccct t	tgtggaaaa	caccaagaag	cttttaagat	ttaatccatt	agatccattc	660
gttctctcaa t	aaaagtctt	tccattcctt	accccaattc	ttgaagcatt	aaatatcact	720
gtgtttccaa g	gaaaagttat	aagttttcta	acaaaatctg	taaaacagat	aaaagaaggt	780
cgcctcaaag a	agacacaaaa	gcaccgagtg	gatttccttc	agctgatgat	tgactctcag	840
aattcaaaag a	actctgagac	ccacaaagct	ctgtctgatc	tggagctcat	ggcccaatca	900
attatcttta t	ttttgctgg	ctatgaaacc	acgagcagtg	ttctctcctt	cattatatat	960
gaactggcca c	ctcaccctga	tgtccagcag	aaagtgcaga	aggaaattga	tacagtttta	1020
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gtgaatgaaa c	cactcagatt	attcccagtt	gctatgagac	ttgagagggt	ctgcaaaaaa	1140
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atttggcttc t	ctgcttctc	ataggactat	ctccaccacc	cccagttagc	accattaact	1800
cctcctgagc t	ctgataaca	taattaacat	ttctcaataa	tttcaaccac	aatcattaat	1860
aaaaatagga a	attattttga	tggctctaac	agtgacattt	atatcatgtg	ttatatctgt	1920
agtattctat a	agtaagcttt	atattaagca	aatcaataaa	aacctcttta	C	1971

Human mRNA for endothelin converting enzyme, complete cds.

atgeggggeg tgtggeegee eeeggtgtee geeetgetgt eggegetggg gatgtegaeg	60
tacaageggg ccaegetgga cgaggaggac etggtggact egeteteega gggegaegea	120
taccccaacg gcctgcaggt gaacttccac agcccccgga gtggccagag gtgctgggct	180
geacggaccc aggtggagaa geggetggtg gtgttggtgg tacttetgge ggeaggactg	240
gtggcetget tggcagcaet gggcatccag taccagacaa gatccccete tgtgtgcetg	300
agegaagett gtgteteagt gaccagetee atettgaget ccatggacce cacagtggac	360
coctgecatg acttetteag ctacgcetgt gggggetgga tcaaggceaa cccagtecet	420
gatggccact cacgetgggg gacetteage aacetetggg aacacaacca agcaatcate	480
a acceptor togazaacte cacqqeeaqe qtqaqegagg cagagagaa ggegeaagea	540
tactacoto cotocatosa coagaccado atcoaggago toaggagoda accidiaacy	600
gagttgattg agaggetegg gggetggaac atcacaggte cetgggecaa ggacaactte	660
caggacaccc tgcaggtggt caccgcccac taccgcacct cacccttctt ctctgtctat	720
gtcagtgccg attccaagaa ctccaacagc aacgtgatcc aggtggacca gtctggcctg	780
ggcttgccct cgagagacta ttacctgaac aaaactgaaa acgagaaggt gctgaccgga	840
tatotgaact acatogtoca gotggggaag ctgotgggcg goggggacga ggaggocacc	900
conceccaga tocagoagat cttoquacttt gagacggcac tggccaacat caccaccca	960
caggagaagg gccgtgatga ggaggtcatc taccacaaag tgacggcagc cgagccgcag	1020
acettoccae ecoccatcaa etqqttqcct tttctcaaca ecaccicca ecceyiyyay	1080
at cast and consectat teteritetat dacaaggaat accuraged gareeceae	1140
ctcatcaca ccaccgacag atgcctgctc aacaactaca tgatctggaa tetggtggg	1200
assaceaget cetteettoa ceagedetti caggaegeeg algagaagee caeggaagee	1260
atotacogoa ccaagaagac ctgtcttcct cgctggaagt tttgcgtgag tgacacagaa	1320
ageageteg getttgegtt gggeeceatg titgteaaag caacettege cgaggacage	1380
aggaggatag ccaccgagat catcctggag attaagaagg catttyagga aagccegage	1440
accetgaagt ggatggatga ggaaaccega aaatcageca aggaaaagge egaegecate	1500
tagacatga taggataccc caacttcatc atggatccca aggagccgga caaagegeee	1560
aatgactaca ctgcagttcc agacctctac tttgaaaatg ccatgcggtt tttcaacttc	1620
trategaggg tractoroga tractoragg aaagrocora aragagarra gragageary	1680
according tootgaacgo ctactactog cocaccaaga atgagattgu gutteegged	1740
gggatectoc aggeaceatt ctacacacqc tecteaceca aggeettada etteggege	1800
atacototoc tootogocca toagettaet catgettete atgateaagy acgggageat	1860
gacaaggacg ggaacctccg gccatggtgg aagaactcat ccgtggagge cttcaagegt	1920
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gggggggg gtctcaaggc ggcctategg	2040
cottaccada actoogtosa daagaacqqq qctqaqcact cgctccccac cctgggccco	2100
acceptance agetetett cetqqqettt qeacaggtet ggtgereegt cegeacaett	2160
garagetocc acgaaggeet cateacegat ceceacagee ecceegete eegggeedee	2220
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atomaccone of cacaagto egaagtotog taaggacgaa geggagagag ceaagaegga	2340
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### 602386668F1 NIH\_MGC\_93 Homo sapiens cDNA clone IMAGE:4515521 5', mRNA

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gttcctggag ttaatttgtt ttacaggaat ttgtttttta aaaaaatagg atcatt	ctga 180
acttggaatg acccccttat atattttctg aaaatgaaaa cagttacatg aaaaaa	attt 240
ccaatgaaga tgtcagcatt ttatgaaaaa ccagaagtta ttagatgaaa gcagcg	agtg 300
aatetttaaa acagacttga teaegeacae acaataagte ttteteteeg aaaceg	gaag 360
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tatgaacaaa atttgcactc taccagattt gaacatctag tgaggttcac attcat	acta 540
agttttcaac attgtgttct tttggcattc atttttact tttattaaag gttcaa	aacc 600
aaaaaagaaa aaaag	615



### Homo sapiens mRNA for Rev-ErbAalpha protein (hRev gene)

cegttgeete aacgteeaac	ccttctgcag	ggctgcagtc	eggecaecee	aagaccttgc	60
tgcagggtgc ttcggatcct	gatcgtgagt	cgcggggtcc	acteceegee	cttagccagt	. 120
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acceptetea getegteaag	acatgaccac	cctggactcc	aacaacaaca	caggtggcgt	240
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aaaaaaaaa aaaag					2355



Homo sapiens insulin induced protein 1 (INSIG1) gene, complete cds.

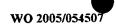
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ggagcaecce	tttttttcc	tattataaac	aaatcttcga	tataactaca	atgatctacg	180
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gatgatctac	gtatctggtt	gegegaeeee	gaagtccaac	ctacttagag	tecttaggaa	300
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gaargaate	acaaacaaaa	cagagcaagc	tcaggccacg	cccccgggcg	gegegegegg	1260
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	. dagageegge	aaacaaacac	eteteggeea	ggtatgugge	C99CC333~~	1440
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an accordant o	- coatracacca	ctateceegg	acaaacacac	gggggccaa	cccc333333	1620
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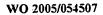
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## Homo sapiens tumor rejection antigen (gp96) 1, mRNA (cDNA clone

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a				•	1381

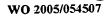


Homo sapiens tumor suppressor deleted in oral cancer-related 1, mRNA (cDNA clone MGC:3779 IMAGE:3659410), complete cds.

gcgcgcaagg	caccggtggc	agcggcgacg	gcagctgcga	cagcaacccc	tgctgggccg	60
aaactgggca	gagcggagca	gacgtctgaa	gcagcgcgag	tgaggegega	gggtagcgcc	120
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gcccttccgg	ccagacctct	atttaccagg	ggcgtgcagc	ccgcttgcca	atcagagege	480
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		acccatcgcc				600
		ggtccctaca				660
		cagaccgctg				720
		acccggcgcc				780
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		tcccactttg				1260
		ccttgtgtcc				1320
		tttatattaa				1380
aaaaaaaaaa				· · · ·		1397

Homo sapiens TNFR-related death receptor-6 (DR6) mRNA, complete cds.

gecacageca egatgatege gggetcett etectgettg gatteettag caccacaca 120 geteagecag aacagaagge etecaacete tagacagtate attggeacat acegecatgt tagacagtge etecaacetge tagacaggat etecacetge ggacetttae caggeagga accacacaa gectgegegt etgacaggat tagacagga etgacatgge etgacaggat tagacatgge etgacaggat tagacatgge etgacaggat tagacatgge etgacaggat tagacaggatg etgacaggatgag etgacaggatgag etgacaggatgag etgacaggatgag etgacaggatgag etgacaggatgag etgacaggaggagaggaggaggaggaggaggaggaggaggag	atggggacct	ctccgagcag	cagcaccgcc	ctcgcctcct	gcagccgcat	egecegeega	60
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tccccacagg acaagaacaa gggcttcttc gtggatgagt cggagccct tctccgctgt 1680 gactctacat ccagcggctc ctccgcgctg agcaggaacg gttcctttat taccaaagaa 1740 aagaaggaca cagtgttgcg gcaggtacgc ctggacccct gtgacttgca gcctatcttt 1800 gatgacatgc tccactttct aaatcctgag gagctgcggg tgattgaaga gattccccag 1860 gctgaggaca aactagaccg gctattcgaa attattggag tcaagagcca ggaagccagc 1920	agccccatcc	ccagececaa	cgcgaaactt	gagaattccg	ctctcctgac	ggtggagcct	_
aagaaggaca cagtgttgcg gcaggtacgc ctggacccct gtgacttgca gcctatcttt gatgacatgc tccactttct aaatcctgag gagctgcggg tgattgaaga gattccccag gctgaggaca aactagaccg gctattcgaa attattggag tcaagagcca ggaagccagc 1860	tccccacagg	acaagaacaa	gggcttcttc	gtggatgagt	cggagcccct	tctccgctgt	
aagaaggaca cagtgttgeg geaggtacge etggaceeet gtgacttgea geetatettt 1800 gatgacatge tecaetttet aaateetgag gagetgeggg tgattgaaga gatteeecag 1860 getgaggaca aactagaceg getattegaa attattggag teaagageea ggaageeage 1920	gactctacat	ccagcggctc	ctccgcgctg	agcaggaacg	gttcctttat	taccaaagaa	
gatgacatgc tecaetttet aaateetgag gagetgeggg tgattgaaga gatteeeag 1860 getgaggaca aactagaceg getattegaa attattggag teaagageea ggaageeage 1920	aagaaggaca	. cagtgttgcg	gcaggtacgc	ctggacccct	gtgacttgca	gcctatcttt	
gctgaggaca aactagaccg gctattcgaa attattggag tcaagagcca ggaagccagc 1920	gatgacatgo	tccactttct	aaatcctgag	gagctgcggg	tgattgaaga	gattccccag	
cagaccetee tggactetgt ttatageeat etteetgace tgetgtag 1968	gctgaggaca	aactagaccg	gctattcgaa	attattggag	tcaagagcca	ggaagccagc	
	cagaccctcc	tggactctgt	ttatagccat	cttcctgacc	tgctgtag		1968



601848574F1 NIH\_MGC\_55 Homo sapiens cDNA clone IMAGE:4079202 5', mRNA sequence.

					andattttaa	60
acaatggtat	agatttcaca	acacaaaaag	gacarrygry	gatyttattg	Cacaccccaa	
attettaaca	ctaatttatc	totataagtg	tttatatgca	tattttggga	cataaacagt	120
ttatotaaaa	ttaqtaatqa	atgatggcaa	cgagggcact	gttatcttcg	ttgttttcaa	180
tgatcattta	grattcaatg	atogaacage	togtataaca	taagtggtcg	gcatgaaata	240
Lyactatta		acggaacage	gaacttatat	cttacattct	ctctcacatt	300
tttgagatcg	aaacttctgt	geettyaata	gaacctacac	cctagactec	CCCCCCCCC	
ttctgtggag	ctqqqqttqa	ataggaacca	gatgatgttc	actgctgaaa	ttccataatg	360
cttcccattg	aagggaagtg	agaaccagga	aagctgcttt	cacgtcatgt	gccatccagt	420
actoscares	aagaaagatg	tagttttcca	gtagtgatga	atcacattat	gaattacatt	480
accyacayyy	aagaaagacg	Luguette		++ cab++ aca	ttasttasst	540
tettettaag	aagtaaaaac	tcagaatgta	ccatctgtgt	cuccutag	ttcattaaat	
ggcatcataa	cagatgactt	gtgctaagtt	caatagagtt	accacatctt	ttactattat	. 600
gcaaaaatat	taactttaat	gaaccattgc	ttggacatga	tttcctatac	attaccattg	660
	cttcctcata	ctatcaccca	ctaaacctoo	gtgtttacac	tgggcaccgc	720
ggccgaargt	greggedata	ccaccacyca		35355666		775
getteaccgg	gcataaggcg	gacaacggtc	ttaggcaaac	regggteete	gaaac	115



#### Homo sapiens clone PP1722 unknown mRNA.

			_			
				cgatcctccc		. 60
				gctctaaaga		120
				catatatggt		180
taatgtagtg	atgcactcta	aatttgcatt	atatttccta	gaacatctga	acagagcata	240
				cttaaaagca		300
tcatttccct	gcactgtaat	ttttttaaat	gatcaaaaac	agtatcatac	caaggcttac	360
ttatattgga	atactattt	agaaagttgt	gggctgggtt	gtatttataa	atcttgttgg	420
tcagatgtct	gcaatgagta	aatttagcac	cattatcagg	aagctttctc	accaatgaca	480
acttcattgg	aagattttaa	tgaaagtgta	gcatactcta	gggaaaaaat	atgaatattt	. 540
tagcatctat	gtattgaaaa	ttatgttgaa	taaatgtcag	actattttt	acataacgtt	600
gcttctgttt	aattttgtca	cgttcagagg	tggggggtag	gagatgtaag	cccttgacag	660
caaaataatt	ccttttgctt	gatttcagac	agttgcatca	gctcctttgt	tctgtgttca	720
tgttacactt	atttaggtgg	ctgaatccac	agaggagcct	gctggttcta	atcggggaca	780
gtatcctgag	gattcctcaa	gtgatggttt	aaggcaaagg	gaagttcttc	ggaacctttc	840
ttcccctgga	tgggaaaaca	tctcaaggcc	tgaagctgcc	cagcaggcat	tccaaggcct	900
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gatatatgca	cgacagtact	acatgcaata	tttagcagcc	actgctgcat	caggggcttt	1020
tgttccacca	ccaagtgcac	aagagatacc	tgtggtctct	gcacctgctc	cageceetat	1080
tcacaaccag	tttccagctg	aaaaccagcc	tgccaatcag	aatgctgctc	ctcaagtggt	1140
				caaggtggcc		. 1200
agaagatgat	gaaataaatc	gagattggtt	ggattggacc	tattcagcag	ctacattttc	1260
tgtttttctc	agtatcctct	acttctactc	ctccctgagc	agattcctca	tggtcatggg	1320
ggccaccgtt	gttatgtacc	tgcatcacgt	tgggtggttt	ccatttagac	cgaggccggt	1380
tcagaacttc	ccaaatgatg	gtectectec	tgacgttgta	aatcaggacc	ccaacaataa	1440
cttacaggaa	ggcactgatc	ctgaaactga	agaccccaac	cacctccctc	cagacaggga	1500
tgtactagat	ggcgagcaga	ccagcccctc	ctttatgagc	acagcatggc	ttgtcttcaa	1560
gactttcttt	gcctctcttc	ttccagaagg	cccccagcc	atcgcaaact	gatggtgttt	1620
gtgctgtagc	tgttggaggc	tttgacagga	atggactgga	tcacctgact	ccagctagat	1680
tgcctctcct	ggacatggca	atgatgagtt	tttaaaaaac	agtgtggatg	atgatatgct	1740
tttgtgagca	agcaaaagca	gaaacgtgaa	gccgtgatac	aaattggtga	acaaaaaatg	1800
				tatactctat		1860
				gcttgaggaa		1920
				atgcagaagt		1980
				gtgtactact		2040
				aaagacttat		2100
				ttgcggaggt		2160
				aaaaaaaaa		2217



Homo sapiens hypothetical protein FLJ11259, mRNA (cDNA clone MGC:8787. IMAGE:3925141), complete cds.

gcaaaatcaa	acctgctatt	tcagcactcc	tgtttttaac	ttggtgtctt	tagtgcttgg	60
attqqtggga	tgtttcggaa	tgggcattgt	cgccaatttt	caggagttag	ctgtgccagt	.120
ggttcatgac	gggggcgctc	ttttggcctt	tgtctgtggt	gtcgtgtaca	cgctcctaca	180
gtccatcatc	tcttacaaat	catgtcccca	gtggaacagt	ctctcgacat	gccacatacg	240
qatggtcatc	tetgeegttt	cttgcgcagc	tgtcatcccc	atgattgtct	gtgcttcact	300
aatttccata	accaagctgg	agtggaatcc	aagagaaaag	gattatgtat	atcacgtagt	360
gagtgcgatc	tgtgaatgga	cagtggcctt	tggttttatt	ttctacttcc	taactttcat	420
ccaagatttc	cagagtgtca	ccctaaggat	atccacagaa	atcaatggtg	atatttgaag	· 480
aaaqaaqaat	tcagtctcac	tcagtgaatg	tcgcaggcca	tttctaaaag	tgctacagag	540
gacagacagg	gttttgaggc	caccctgatt	attgggatgc	atctgcagca	catccaggac	600
ttgaatttca	ttacgagttc	ctaatagttg	tatttctaaa	gatgtttcct	agagaatgta	660
cageettatg	acactgtagt	gatgttttta	taattttcta	agtagatttt	tttatattaa	720
caaattcata	tacagaaaaa	ataaggtgtt	acaaaaaatg	gagagetett	atttttgtac	780
agattetgte	attttttt	tatttgtgtg	agatttatgg	aaatacacta	aatgagtaat	840
tcaggttcag	tacatttatt	acaaagtgaa	atcaggggat	attcatttgt	aaattttatt	900
cttagtgaat	gaactgtata	attttttta	tcaggagagc	acttataaaa	ttcaatttat	. 960
aaagatcata	tacccaaatc	ataaagattt	agttgataca	ttaacactaa	gatactctga	1020
tttttagcca	aactaaacaa	agtgcttcta	ctgagaggcc	tttataccac	catgtacagt	1080
aactctaaqt	qaatacggaa	gaccttggtt	ttgaaattct	gccaccttgt	ttctccctgc	1140
tcatgaggtc	gcaccttttg	ctcttgctgc	taattgccca	ttcttagtgg	gtgtaatgcc	1200
aggtggaatg	gtttcaacaa	gtcaggtgaa	aaccatcctt	tattgttgct	ggcacaactt	1260
gatatatagt	ctgactcaga	actgaagete	acatctcaaa	ttcatttcat	gccagtaaat	1320
gtggcaaaga	qaaqaaaqqc	ccaagagcga	gacaagaaga	atggagaagg	gggcagccaa	1380
gaagaacttc	tgggttcagg	gtactgttta	tttgctcctt	ctcttcatgc	ctgtggctgg	1440
atotoccaca	acactataaq	aaatataagt	caagcccttt	gtgttaagca	agaactacag	1500
actccatctt	ttcacccaaa	tcatgaatga	ccaataaaaa	gcaagttatt	ccagaggaag	1560
aagcagccct	tqaaaaataa	ggcttaggct	tgaaaggtga	agagcaggaa	ttctctcttt	1620
caaatcctag	agcataaacc	catgtgtggc	caagtgagat	cagccctcaa	gggcacatgc	1680
caagggcaga	gcagcccatg	tagacagctt	cggagggcat	gggggtgtag	ggagttcggg	1740
gtageteete	attaactatt	tgttgggtga	gtaaaggggt	gaggctcagt	ggcaggtacc	1800
tctgcaatga	caagetgeet	eccetetatg	tgtttagcat	atgttattag	aacatgtccg	1860
acacccctac	cqctqccatt	tgggcccttt	aataaagcca	agtagagaaa	tctggcaata	1920
aaaggcaaat	gtaagcatgc	tttctttaag	acgcatcata	aatggttttc	tttaagtgaa	1980
tagaagagtt	tgacagagat	acacctttgt	aagaaaacat	taagaatgct	ggctggctgt	2040
gataactcac	acctotatto	ccagcacttt	gggaggccta	ggcaggagga	ttgcttgagc	2100
ctoggacttc	gagaccagac	tgggaaacat	ggcaaaatcc	catctctaca	acaaaaatac	2160
aaaaattagc	caaqtqcqqt	ggtgtgcctg	tagtcctagt	tacttgggag	gctgaggtgg	2220
gagaatcacc	tgagcccagg	aggtggaggc	tgcagtgagc	catgccaatg	cactccagtc	2280
toggcaacag	agtgagaccc	totctcaaaa	ataaataaat	aaataaatga	ataaagagaa	2340
toctaatcca	aaaaaaaaaa	aaaaaaaaa	aaaaaaaaa	aaaaaaaa		2388
- 3						

tq65c10.x1 NCI\_CGAP\_Lu19 Homo sapiens cDNA clone IMAGE:2213682 3' similar to SW:ENPL\_HUMAN P14625 ENDOPLASMIN PRECURSOR ;, mRNA sequence.

					<b>*</b>	. 60
tttttttcc	tctactgcag	cttcatcatc	agattcttct	FECECETE	Eggetgette	
ttetteetee	atgggctcct	caacaqtttc	agtcttgctg	ctccatacat	aaataggaaa	120
otttatgaac	totoaatatt	tttttqacqa	gatttttaat	tgtatccaat	ccaaggtaat	180
cadatoctto	ttcttttaag	acaaqqqtaa	ttgtcgttcc	ccgtcctaga	gtgtttcctc	240
ttgggggggg	aattaranaa	aattcattoo	agtcagactc	ccagatgtgc	tgagtatcgt	300
tegggeeage	tasatasa	ataaccttat	ctgctacaag	qaaqqcqgaa	tagaaaccga	360
	gaagtgaca	tracaactto	actggccatc	ttcctatact	tcagtcattt	420
caccaaactg	gecaateate	coagaugeeg	ctatggtacc	aaggtttta	accaactctt	480
tgtttaaaaa	eregeregre	tetetetese	atgcagcagg	ttcttctcct	tatcacactt	540
ctcggtcatt	cctacaccgn	Lgcccgcgac	acgeageage	tratractra	grgatattag	600
aattttgact	tgtagttcct	catttecaya	aayaycaccc	tatatasaas	gtgatattag	660
ccttatctta	tctaaagcat	caaaagcaat	tgaaatcagt	eset egget t	addooccooc	720
atttttatac	aggaattggt	gataggttca	tcattctggt	aactecgett	ggaaggcaac	780
ttttccgact	ctctctaagt	ctctaattgg	gagcattaaa	teateaactg	acagettete	840
ctttctcgga	ctacttcata	teceggeett	gactttctta	CETETECCCC	aaccetttt	900
ttacccatcc	cataacttaa	ttacaactta	accgaccgaa	gtaanaggac	ccaaaggccc	960
aacccccagg	cecetttagg	tacaaacaaa	attaatacct	ctaatcaggg	ccccctggc	
caatttgccc	gggccaaatc	ttattqqqqq	ttaaaaaaaa	attttattgt	ccggggaaag	1020
ttcccccatc	cccaaaaacc	ccggaaaagg	gaaggggggc	gttaggggaa	caatattggc	1080
tecteceten	cccaaaancc	cccctatta	aaacccggga	gggaaangtn	tteectetee	1140
tctcaccccn		<b>3</b>				1151
LULUACUU						

Homo sapiens phosphoserine aminotransferase (PSA) mRNA, complete cds.

cettggetga etcacegece tegeegeege accatggaeg ecceeaggea	ggtggtcaac	60
tttgggcctg gtcccgccaa gctgccgcac tcagtgttgt tagagataca	aaaggaatta	120
ttagactaca aaggagttgg cattagtgtt cttgaaatga gtcacaggtc	atcagatttt	180
ttagactaca aaggagttgg tattagtgtt ceegaaat tactaactgt	tccagacaac	240
gccaagatta ttaacaatac agagaatctt gtgcgggaat tgctagctgt	cccttaaac	300
tataaggtga tttttctgca aggaggtggg tgcggccagt tcagtgctgt	ttaataaact	360
ctcattggct tgaaagcagg aaggtgtgcg gactatgtgg tgacaggagc	tesastass	420
aggregate aggaagetaa gaagtttggg actataaata tegttcacce	taaacttygg	
agttatacaa aaattccaga tccaagcacc tggaacctca acccagatgc	ctcctacgtg	480
tattattorg caaatgagac ggtgcatggt gtggagtttg actitatacc	cgatgtcaag	540
ggagcagtac tggtttgtga catgtcctca aacttcctgt ccaagccagt	ggatgtttcc	600
aagtttggtg tgatttttgc tggtgcccag aagaatgttg gctctgctgg	ggtcaccgtg	660
gtgattgtcc gtgatgacct gctggggttt gccctccgag agtgcccctc	ggtcctggaa	720
tacaaggtgc aggctggaaa cagctccttg tacaacacgc ctccatgttt	caqcatctac	780
gtcatggget tggttetgga gtggattaaa aacaatggag gtgeegegge	catggagaag	840
gtcatgggct tggttctgga gtggattaat aacaacggag gegetsttctca	aggattetae	900
cttageteca teaaatetea aacaatttat gagattattg ataattetea	agacottcao	960
gtgtctgtgg gaggcatccg ggcctctctg tataatgctg tcacaattga	agaogotoag	1020
aagetggeeg cetteatgaa aaaatttttg gagatgeate agetatgaac	acatectaac	1065
caggatatac tetgttettg aacaacatac aaagtttaaa gtaac		2005

### Homo sapiens cDNA clone: ADBAPE04, 5 end, expressed in human adrenal gland.

aaaqaaactg	gttggtttta	agaaaatagt	ttcaagaagt	tcaactatat	tcttttagat	60
attatgtatt	gttttactct	gattaggtta	ctgtgatagg	catttattca	tattcttct	120
	cattaatata					180
	tcatagactg					240
	caaattaagg					300
					tttgaaaagt.	360
gaaagattta	ttttggtaaa	agattttgct	ttacttttcg	aagcattatt	cttttaaaga	420
gtggtttact	tcaacgattg	aaacattttc	ctattaaaat	ttcattgtta	gaatcacagg	480
agcgcaaaaa	tggaacggtt	gattgaaatn	tactctttct	gtgaagaaaa	tcacagagtt	540
gttgcctcgt	tgtagttggt	gggccccgta	gcatggatgc	ctttgccaat	gggttcatgt	600
gccacacaaa	gcaaacagat	ctgcatcgat	cgcaatttct	tgtgaacacg	gattgcatgt	660
ccatatccct	ttgcaggatt	taaaatattt	aaaatggcct	gccttgagtg	cgatgagcca	720
acttgcctac	tggactccac	ctgggtgacc	aat			753

WO 2005/054507 PCT/GB2004/005078

wd68f02.x1 NCI\_CGAP\_Lu24 Homo sapiens cDNA clone IMAGE:2336763 3', mRNA sequence.

tttctgtaca atacacattt a	attgagcact	agatatatgc	catgctagat	gcaggtgacc	60
cagagcatca aggagcaata g	gtctggtggc	agagacacac	acaatgtcac	tgtgatgtat	120
taaagcagtc agcaatagat g	gcagctcagg	gcactgtggg	gatatccaga	ggcacagtac	180
cttctgcctg tcagtcaggg a	agggagagga	gcacaggctg	aaggagactg	gaagacagca	240
gttggcctct gatagtggga c	ctggagagag	atttctaagg	gccacttctt	gttttcaggg	300
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atgaaagagc attactagag g	gagtggggag	gcctaggcta	tgctctttac	tetgecattg	420
actgcgtgat cttgggcagg c	ccatgtaacc	tctcagggct	gtgcactccc	ttatttgtaa	480
aactagaggg ctgggccagc a	atgtttt				507



## H.sapiens LU gene for Lutheran blood group glycoprotein.

				0000000000	cacacaaaac	.60
agtctccgcc	gecgecgtga	acatggagcc	cceggaegea	ccagatacaa	addcddaddt.	120
cccgcggctg	ctgttgctcg	cagtcctgct	ggeggegeae	anatatata	ttctccactc	180
gcgcttgtct	gtacccccgc	tggtggaggt	gatgegagga	thattage	acceptaces	240
cacccctacg	ggaacccacg	accattatat	gctggaatgg		tanantaca	300
agctcgcccc	cgcctagcct	cggctgagat	gcagggctct	gageteeagg	tratactacc	360
cgacacccgg	ggccgcagtc	ccccatacca	gctggactcc	caggggcgcc	rggrgergge	420
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cageeggaae	aggaacccag	cccccaagat	cacgraggat	cgcaacgggc	agegeeega	660
agtaccata	gagatgaacc	cagagggcta	catgaccagc	cgcacggccc	gggaggeeee	720
agacetacte	-tecctcacca	gcaccctcta	cctqcqqctc	cgcaaggatg	accyagacyc	720 780
cagetteeac	tacaccaccc	actacaqcct	gcccgagggc	egecaeggee	geetgyacag	
ccccaccttc	cacctcaccc	tocactatcc	cacggagcac	gegeageree	gggcgggcag	840 900
cccatccacc	ccagcaggct	qqqtacqcga	gggtgacact	geccageege	ceraceagaa	
ggacggcagc	cccaacccaa	agtatacgct	tttccgcctt	caggatgage	aggaggaagc	960
actasatata	aatctcgagg	ggaacttgac	cctggaggga	grgaceeggg	geeagagegg	1020
gacctatggc	tacagagtag	aggattacga	cgcggcagat	gacgtgcagc	tetecaagac	1080
actogaacta	cacataacct	atctqqaccc	cctggagctc	agcgagggga	aggegeeeee	1140
cttacctcta	aacagcagtg	caqtcqtqaa	ctgctccgtg	cacggcctgc	ecaecectyc	1200
retacactaa	accaaggact	ccactcccct	gggcgatggc	cccatgctgt	egeccagete	1260
tateacette	gattccaatg	gcacctacgt	atgtgaggcc	teeetgeeea	cagiceeggi	1320
cctcagecge	acccagaact	tcacgctgct	ggtccaaggc	tegecagage	taaagacagc	1380
ggaaatagag	cccaaggcag	atggcagctg	gagggaagga	gacgaagtca	cacteatety	1440
chehaceas	ggccatccag	accccaaact	cagctggagc	caattggggg	geageeeege	1500
agagggaatg	cccqqacqqc	agggttgggt	gagcagctct	ctgaccctga	aagtgattag	1560
caccetasac	cacgatagca	teteetgtga	agcctccaac	ccccacggga	acaagcgcca	1620
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F.77						

Homo sapiens mRNA for calmegin, complete cds.

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wx78h04.x1 NCI\_CGAP\_Ov38 Homo sapiens cDNA clone IMAGE:2549815 3', mRNA sequence.

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#### Human CD9 antigen mRNA, complete cds.

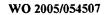
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Homo sapiens cDNA clone: HEMBA1001328, 3' end, expressed in whole embryo,

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Homo sapiens 7-dehydrocholesterol reductase, mRNA (cDNA clone MGC:1760 IMAGE:3507516), complete cds.

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H	omo sapiens	squalene er	ooxidase (EF	RG1) mRNA, 4	complete cd	5.		
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Homo sapiens keratin 23 (histone deacetylase inducible), transcript variant 1, mRNA (cDNA clone MGC:26158 IMAGE:4838347), complete cds.

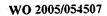
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 $\ensuremath{\mathsf{Homo}}$  sapiens translocon-associated protein gamma subunit mRNA, complete cds.

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Homo sapiens malic enzyme 1, NADP(+)-dependent, cytosolic, mRNA (cDNA clone MGC:39115 IMAGE:4870714), complete cds.

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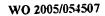
Homo sapiens livin inhibitor-of-apotosis (LIVIN) mRNA, complete cds.

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Homo sapiens drebrin 1, transcript variant 1, mRNA (cDNA clone MGC:1517 IMAGE:3356428), complete cds.

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Homo sapiens MDS019 (MDS019) mRNA, complete cds.

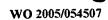
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Human carnitine palmitoyltransferase I mRNA, nuclear gene encoding mitochondrial protein, complete cds.

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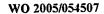
Homo sapiens prostate differentiation factor mRNA, complete cds.

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gccagcgccc tgctgcgtgc ccgccagcta caatcccatg gtgctcattc aaaagaccga	900
caccggggtg tcgctccaga cctatgatga cttgttagcc aaagactgcc actgcatatg	960
aactagtact aagccgaatt ctgcagatat cc	992



Homo sapiens amphiphysin II mRNA, complete cds.

ccgggcgagg	cctgcgccgc	gatggcagag	atgggcagta	aaggggtgac	ggcgggaaag	60
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602149641F1 NIH\_MGC\_81 Homo sapiens cDNA clone IMAGE:4290707 5', mRNA sequence.

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ctagaaggta	agttaaacaa	aataccggct	tccagagacc	ccttttctcc	agccatatta	420
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	ccttgctttg			_		759

Human global transcription activator homologous sequence mRNA, complete cds.

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J	_					



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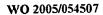
tb60a01.xl NCI\_CGAP\_Br15 Homo sapiens cDNA clone IMAGE:2058696 3' similar to gb:M84739 CALRETICULIN PRECURSOR (HUMAN);, mRNA sequence.

tatacggctg	cgagaagacg	acagaagggg	acagaggcaa	gaaaagatgt	tgatcaagaa	60
agatgagaac	caggggtgag	ggctgaagga	gaatcaaaga	taaaatacca	gtttaaaaaa	120
aaaaaaaaa	aaaaaaagt	cgtatcga			<b>J</b>	148

### WO 2005/054507

tu04d02.x1 NCI\_CGAP\_Pr28 Homo sapiens cDNA clone IMAGE:2250051 3', mRNA sequence.

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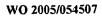


Homo sapiens mRNA for KIAA0895 protein, partial cds.

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			cggagagccg			120
			cccgcccctg			180
			cgacgatgct			240
			ctaagaagtc			300
					ctaaaagaca	
			tcctactaca			420
			actccaaaag			480
			gcaggatgaa			540
			ggcctgctgt			600
			ctgttacagg			660
			atttctccac			720
			acttttctgg			780
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			ctgatacttc			1380
			aaatcctccg			1440
			cttatgaaga			1500
			atttcctgca			1560
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			tacctggatt			2760
			accccactca			2820
			ctcagtgcag			2880
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			cacattcatg			3000
			ctctttcaca			3060
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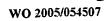
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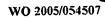
Homo sapiens NUCB2 protein (NUCB2) mRNA, complete cds.

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qaaa				•		



 $\mbox{\sc Homo}$  sapiens glucose-6-phosphate dehydrogenase, mRNA (cDNA clone MGC:8534 IMAGE:2822640), complete cds.

		•		•		
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		acccaggtgt				120
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tggacgaccc	cacggtgccc	cgcgggtcca	ccaccgccac	ttttgcagcc	gtcgtcctct 😘	1080
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		ccttcccgcc				1680
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		gtaggcagcc				2160
		aatgccctgc				· 2220
aaaaaaaaa						2230



Homo sapiens zinc finger protein 165 (Zpf165) mRNA, complete cds.

	_					
			anatgtccag			60
atccagtccc	tctcatattg	cctttgaaat	tagcagcctc	tgggtgacca	gaccttggcc	120
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			ggggctgtcc			300
cactggtaan	angagttgcc	cattecance	aggtggaacg	gggaggggta	gccacatgtc	360
tcagatctgc	cattgtctgc	gaaaagaaac	tgctgcgagg	accatcccca	atecectget	420
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gctaaacatg	cagcagtttt	cagtggagat	aaaactcatc	agtgtaatga	atgtgggaaa	1620
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ggagaaaaac	cctatgaatg	cagtgagtgt	ggaagagcct	tcagtcagag	ctcaaacctt	1980
agtcaacacc	agagaattca	catgagggaa	aacctattaa	tgtaaggaac	ttaaatttgt	2040
			aaaaatatta			2100
			aaaaaaaaa			2150

# 602326096F1 NIH\_MGC\_90 Homo sapiens cDNA clone IMAGE:4414319 5', Mrna

•				atactera	tagaagtatt	·60
tatctgttca	atgaaaataa	ggtatgacce	aagtttttac	ccagicigac	Lagaagcacc	
ccacttcaag	gtctgaagta	ggacttttac	cttaaaaaac	aacaacaaac	aaaactatca	120
cacacoatac	ataagaagat	toottaaaca	gttttgtgta	gatctttttg	gtgctgaact	180
cacaggucag	ccttatacat	totaaaatao	ggatagttgg	aactaatota	cagaactaaa	240
atgacatgag	CCCcacagac	ty cadadas	5544-5-55	acttatetaa	<del>+</del> +-	300
ttttttaaac	tttatttgct	gttaaattct	gtgaagtttc	agicalicaa	aacaaacaca	_
cacaaatato	aaatataatq	tttcagattg	caaggtaata	tgtaatagta	gtgtttgtaa	360
atatta	tctaatatta	actagtagta	ttttgatttg	tacagtcata	atttgttaaa	420
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geggenanne	andthttaaa	taccadassa	tgggttttct	caaagtccat	taccaacaat	600
agagtaattt	adctitiggg	tyccayyaaa	699966666			660
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aacacccccg	aaacaaagoo		2	222202020	ggggagagat	780
atacgagaca	aaaaaaaaa	aaaacgaaaa	aaaataaaaa	aaaaagagag	9999404946	,
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	555555	tatatataaa	acaactgtgg	agaaaac		887
addddlalaa	accyyaaaaa	uguguguug	4044055055			

## Human prostaglandin endoperoxide synthase mRNA, complete cds.

gegecatgag	ccggagtctc	ttgctccggt	tettactatt	cetactecta	ctcccgccgc	60
teccegteet	gctcgcggac	ccaggggcgc	ccacqccaqt	gaatecetot	tgttactatc	120
catgccagca	ccagggcatc	tgtgtccgct	teggeettga	CCCCtaccac	tgtgactgca	180
cccgcacggg	ctattccggc	cccaactgca	ccatccctgg	cctgtggacc	tggctccgga	240
attcactgcg	gcccagcccc	tctttcaccc	acttectect	cactcacggg	egetggttet	300
gggagtttgt	caatgccacc	ttcatccgag	agatgctcat	gcgcctggta	ctcacagtgc	360
getecaacet	tatccccagt	cccccacct	acaactcage	acatqactac	atcagctggg	420
agtettete	caacgtgagc	tattacactc	gtattctgcc	ctctqtqcct	aaaqattqcc	480
ccacacccat	gggaaccaaa	gggaagaagc	agttgccaga	tgcccagctc	ctggcccgcc	540
gcttcctgct	caggaggaag	ttcatacctg	acccccaagg	caccaacctc	atgtttgcct	600
tctttgcaca	acacttcacc	caccagttct	tcaaaacttc	tggcaagatg	ggteetgget	660
tcaccaaggc	cttgggccat	ggggtagacc	teggecacat	ttatggagac	aatctqqaqc	720
gtcagtatca	actgcggctc	tttaaggatg	ggaaactcaa	gtaccaggtg	ctggatggag	780
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tgtatgccac	gctctggcta	cgtgagcaca	accgtgtgtg	tgacctgctg	aaggetgage	960
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tggaccacca	catcctgcat	gtggctgtgg	atgtcatcag	ggagtctcgg	gagatgcggc	1380
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agctcgtagg	agagaaggag	atggcagcag	agttggagga	attgtatgga	gacattgatg	1500
cgttggagtt	ctaccctgga	ctgcttcttg	aaaagtgcca	tccaaactct	atctttgggg	1560
agagtatgat	agagattggg	gctccctttt	ccctcaaggg	tctcctaggg	aatcccatct	1620
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gtaacacagt	cattctagga	tgtggagcta	ctgatgaaat	ctgctagaaa	gttagggggt	2160
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cettettggg	accccacta	agaccctggt	ctgaggatgt	agagagaaca	ggtgggctgt	2460
acteaegeea	ccggctggaa	gctaccagag	ctctatcccc	atccaggtct	tgactcatgg	2520
cagetgttte	catgaaget	aataaaattc	gecc			2554



#### Human mRNA for tyrosine hydroxylase type 3

+a-ataa	accetace-			anggaanna		60
_	gccatgccca		_			60
					cggggcccag	120
					ccccacccc	180
	_				gcaaggagcg	240
	gtggcagcag		-			300
ggctgtggcc	tttgaggaga	aggaggggaa	ggccgtgcta	aacctgctct	tctccccgag	. 360
ggccaccaag	ccctcggcgc	tgtcccgagc	tgtgaaggtg	tttgagacgt	ttgaagccaa	420
aatccaccat	ctagagaccc	ggcccgccca	gaggccgcga	gctgggggcc	cccacctgga	480
gtacttcgtg	cgcctcgagg	tgcgccgagg	ggacctggcc	gccctgctca	gtggtgtgcg	540
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agtgtcagag	ctggacaagt	gtcatcacct	ggtcaccaag	ttcgaccctg	acctggactt	660
ggaccacccg	ggcttctcgg	accaggtgta	ccgccagcgc	aggaagctga	ttgctgagat	720
cgccttccag	tacaggcacg	gcgacccgat	teecegtgtg	gagtacaccg	ccgaggagat	780
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	ctggggcacg					1140
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	ctgtcctcct					1320
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	gtgtctgaga					1440
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	caggccgtgc					1560
tgcccatgcg	ctgagtgcca	ttggctaggt	gcacggcgtc	cctgagggcc	cttcccaacc	1620
	ctgcactgtc					1680
ccccatgcc	ctccctgctg	ccaggctccc	actgcccctg	cacctgcttc	tcagcgcaac	1740
agctgtgtgt	gcccgtggtg	aggttgtgct	gcctgtggtg	aggtcctgtc	ctggctccca	1800
	ggctgctgca					1860
	ataaaagaaa				-	1891
_	_					

#### Homo sapiens mRNA; cDNA DKFZpS66A093 (from clone DKFZpS66A093); complete

```
agtctgggtt ggactggcgg ccgtggagtt tgtgacatac gaggtgacac ccctcgagtc
                                                                          60
acttecette aacteeaget ggagegeetg cttggetttg ggttegttet geageetteg
                                                                         120
cocceptect ageoteaggg eeggacteeg gegeagagee cageocageg cageotigeea
                                                                         180
quaqueacce agregaceag ecgeceagee ecgeacgaaa eceggecaga getteetage
                                                                         240
agecegagec atgaacaceg aatgtateag acceecatgg aggtggeggt ctaccagetg
                                                                         300
cacaatttct ccatctcctt cttctcttct ctgcttggag gggatgtggt ttccgttaag
                                                                         360
ctggacaaca gtgcctccgg agccagcgtg gtggccatag acaacaagat cgaacaggcc
                                                                         420
atggatctgg tgaagaatca tctgatgtat gctgtgagag aggaggtgga gatcctgaag
                                                                         480
gagcagatec gagagetggt ggagaagaac teccagetag agegtgagaa caccetgttg
                                                                         540
aagaccetgg caagcccaga gcagctggag aagttccagt cctgtctgag ccctgaagag
                                                                         600
                                                                         660
ecageteceg aateceeaca agtgeeegag geeeetggtg gttetgeggt gtaagtgget
ctgtcctcag ggtgggcaga gccactaaac ttgttttacc tagttctttc cagtttgttt
                                                                         720
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                                                                         780
agatgtecta aggacatgge acetgggtec actecagega cagaccettg acaagageag
                                                                         840
gtototggag gotgagttgo atggggoota gtaacaccaa gocagtgago ototaatgot
                                                                         900
actgegeett gggggeteee agggeetggg caacttaget geaactggea aaggagaagg
                                                                         960
gtagtttgag gtgtgacacc agtttgctcc agaaagttta aggggtctgt ttctcatetc
                                                                        1020
catggacate tteaacaget teacetgaca acgaetgtte etatgaagaa gecaettgtg
                                                                        1080
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ttttaagcag	aggcaacctc	tctcttctcc	tctgtttcgt	gaaggcaggg	gacacagatg	1140
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cacageceag	tgtgggatta	cagctttggg	atgaccgctt	acaaagttct	gtttggttag	1260
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ggggggccag	cctctgaatg	cggccacgga	tgccttgctg	ctgcaaccct	ttccccagct	1560
			tgccaaaccc			1620
acatagaatg	gggttgagag	aagatcagtt	tgggcttcac	agtgtcattt	gaaaacgttt	1680
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			gagtgaacac			1860
_			ttgattttcc			1920
ataaactttg	ctctgttttt	ctaaaaataa	aaaaaaaaa	aaaaaaaa	_	1968

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Homo sapiens mRNA for Id-1H, complete cds.

ttcagccagt cgccaagaat c	catgaaagtc	gccagtggca	gcaccgccac	cgccgccgcg	<sup>6</sup> 0
ggceccacgt gegegetgaa g	gccggcaag	acagcgagcg	gtgcgggcga	ggtggtgcgc	120
tgtctgtctg agcagagcgt g	gccatctcg	cgctgccggg	gcgccggggc	gegeetgeet	180
gecetgetgg acgageagea g					240
cgcctcaagg agctggtgcc c					300
ctccagcacg tcatcgacta c					360
gttggaaccc ccgggggccg a					420
gagatcagcg ccctgacggc c	gaggcggca	tgcgtccctg	cggacgatcg	catcttgtgt	480
cgctgaaggc cttccccagg g	gaccggcgg				509

Homo sapiens mRNA for KIAA1254 protein, partial cds.

			<b>+</b>		aaaaaaaata	60
cattggcgcc	cgagctgtga	cegeegeeac	uggggcagee	ageacaateg	ggcggaggcg	120
gcgctgcccc	ttcagacctg	aaagatgtct	gaaaatteea	gcgacagcga	treateringe	180
ggttggactg	tcatcagtca	tgaggggtca	gatatagaaa	tgttgaattc	tgtgaccccc	
actgacagct	gtgagcccgc	cccagaatgt	tcatctttag	agcaagagga	gcttcaagca	240
ttgcagatag	agcaaggaga	aagcagccaa	aatggcacag	tgcttatgga	agaaactgct	300
tatccagctt	tggaggaaac	cagctcaaca	attgaggcag	aggaacaaaa	gatacccgaa	360
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ttttcatctc	agcctagtga	tgatgaatca	agtagtgatg	aaaccagtaa	tcagcccagt	600
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caactaatta	gtgaacaaga	aactgaacct	tctaaggagt	tgagtaaacg	tcagttcagt	720
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gatgaattga	atgatatgaa	ggattatctt	tcccagtgtc	aacaggaaca	agaatctttt	900
atagattata	agtcattgaa	agaaaatctt	gcaaggtgtt	ggacacttac	tgaagcagag	960
aagatgteet	ttgaaactca'	gaaaacgaac	cttqctacaq	aaaatcagta	tttaagagta	1020
tecetagaga	aggaagaaaa	agcettatee	tcattacagg	aagagttaaa	caaactaaga	. 1080
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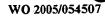
Homo sapiens cDNA clone: HEMBA1001328, 3' end, expressed in whole embryo, ainly head.

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aagcaattat	aaaagaactg	ctgttttctt	ccacactcac	ttgccagagg	gtcgaattgg	120
aagtcacata	tatgtctatg	aacggaagtt	aaaagggaaa	ttcaacatga	agatgaaatt	180
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cnttcccgnt	ntcanagggc	caaaaanttc	ccaaggaaac	caggtagnaa	gctcttnaaa	480
ggccgcaaaa	t		•			491



Homo sapiens mRNA; cDNA DKFZp564F1862 (from clone DKFZp564F1862); complete cds

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acagaattaa tt	ctggcctc aaa	aagctac t	tatgatatct	taggtgtgcc	aaaatcggca	360
tcagagcgcc aa	atcaagaa ggc	ctttcac a	aagttggcca	tgaagtacca	ccctgacaaa	420
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gcacttttcc aca	attatact ccal	tatgagt a	attaatccta	tggatacata	ttaaaacaag	1920
tgtctcatac aad	cattgtat gtg	agagaaa t	ataaatatt	tacaacctaa	aaaaaaaaa	1980
aaaaaaa						



Homo sapiens peroxisomal D3,D2-enoyl-CoA isomerase, mRNA (cDNA clone MGC:3558 IMAGE:3608151), complete cds.

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					ttgaaaaagg	1.80
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		ggtgtatttg				300
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		gaatcctcta				420
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		gactcaatca				600
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		tctgacaggg				840
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aaa						1383



Homo sapiens annexin A1, mRNA (cDNA clone MGC:5095 IMAGE:3459615), complete cds.

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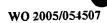
Homo sapiens RTN2-A (RTN2) mRNA, complete cds.

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	cctgtggaaa			•		2190

WO 2005/054507 PCT/GB2004/005078

Homo sapiens kallikrein 8 (neuropsin/ovasin), transcript variant 1, mRNA (cDNA clone MGC:50513 IMAGE:5742016), complete cds.

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Human mRNA for KIAA0188 gene, partial cds.

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_	_					



Homo sapiens 3-hydroxy-3-methylglutaryl-Coenzyme A synthase 1 (soluble), mRNA (cDNA clone IMAGE:2819708), partial cds.

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Homo sapiens S100 calcium binding protein A14, mRNA (cDNA clone MGC:11012 IMAGE:3640899), complete cds.

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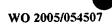
WO 2005/054507 PCT/GB2004/005078

### Homo sapiens cDNA clone:ADBALE09, 5'end, expressed in human adrenal gland.

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as 43b01.xl Barstead aorta HPLRB6 Homo sapiens cDNA clone IMAGE:2319913 3', mRNA sequence.

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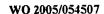


Homo sapiens drebrin 1, transcript variant 1, mRNA (cDNA clone MGC:1517 IMAGE:3356428), complete cds.

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aaaaaaaaa						2593

Homo sapiens potentially prenylated protein tyrosine phosphatase hPRL-3 mRNA, complete cds.

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Homo sapiens cell cycle progression restoration 8 protein (CPR8) mRNA, complete cds.

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Human channel-like integral membrane protein (CHIP28) mRNA, complete cds.

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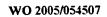
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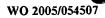
Homo sapiens STRA6 isoform 1 mRNA, complete cds, alternatively spliced.

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# Homo sapiens solute carrier family 7 (cationic amino acid transporter

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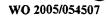
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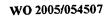


Human DNA for insulin-like growth factor II (IGF-2); exon 7 and additional ORF

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nac79g07.x1 NCI\_CGAP\_Brn23 Homo sapiens cDNA clone IMAGE:3440820 3', mRNA sequence.

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accetacete ggeeeeeggg getgeegegg aagggeeeee	: aaagcctgct catagccaag	420
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Homo sapiens hypothetical protein MGC11256, mRNA (cDNA clone MGC:60219 IMAGE:6091291), complete cds.

gcggccggga	ggccggagca	gcacggccgc	aggacctgaa	gctccggctg	cgtcttcccg	60
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					cagggcccgc	600
		ggctacttca				660
		tgcaagacgt				720
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		agggagcacg				960
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		gcggcgggga				1260
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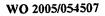
#### WO 2005/054507

Homo sapiens cDNA clone IMAGE: 3952627, partial cds.

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cacacaca cagagggace acgegeg	cae geatgaoogo gogggetta gacccaggcc	180
tgaaccatgc tcaggccaca cagagac	aca tacttggttt ctgggactga gacccaggcc	240
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ggt cttgcca ggcacctgca cagageg	tct ccagccccat ctcctaacgg gggctggggg	
taagagaaat ctaactgcgc tccccca	acc cetegecetg ecatetteee etcaageetg	420
chandtate coaggetet gegtegt	gga aaaagccagc cttggccctg cagcctccac	480
etaggedeta aggaccaac aggttgc	tta cagetttgca eeeeggcate ageacagggg	540
tractages accterge agetcag	gga gtgttttcct gtgaggcctc ccccatcagt	600
ECCCEGCCC accecagge agrees	atc coggetttee egtaacgeac aggacacgtg	660
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qaaqcgatgc tttagtggcc taaccca	ggg tcaaatacag ctctttctag caaaatcagg	
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gagging John Jackto tocctor	gtg ggcctctcag cccgcccgt gtggccgccc	1080
agetataget caggestate coctoo	cag greetreatt caccectece etececacag	1140
gggrgegger cagecatges coordinates	tgc tcgggacaat aaagcttgtg acaggtccag	1200
tggaattgit gaagtgege gageetg	,050 0055540444 444 5 1 5 5 5	1222
gaccccqqca aaaaaaaaaa aa	•	

## PT1.1\_07\_C06.r tumor1 Homo sapiens cDNA 5', mRNA sequence.

engggentge aggaattetg gnace	gagtet gggteentgg	tttctctcca (	tactcccttc	<b>60</b>
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ttcagaaaaa aacaaaaagg gttt				420
anggaantta ngntttcctt ggga	aaaaat nnantntaaa	aaaanactng	gnggggggc (	480
cegggtacce naaattttgg cccm				540
qqncgntttt acaaacgnnn ggag				600
ntncgncatt tnaaggaaaa nttc				653



Homo sapiens cDNA FLJ12940 fis, clone NT2RP2005038, weakly similar to DNA NUCLEOTIDYLEXOTRANSFERASE (EC 2.7.7.31).

actcactggg gcttccttcc	qtctcgctcg	gagtttccct	ctgcgttcgc	teegegetge	60
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grantaceae ttectecaea	ccqccctcqa	egegetteee	gggagtegee	acctacctgg	180
traagected categotege	agecgeggg	ccttcctcac	aggcctggcg	cgctccaaag	240
acticedest cettaacse	tacaactcca	aagcgacaca	rgrrgrgarg	gaagagaeee ·	3.00
cagcagagga ggccgtcagc	tqqcaqqagc	gcaggatggc	agetgeteee	eegggregea	360
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#### WO 2005/054507

np60h03.sl NCI\_CGAP\_Br2 Homo sapiens cDNA clone IMAGE:1130741 3', mRNA sequence.

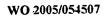
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######################################	· · · · · · · · · · · · · · · ·

Homo sapiens ALL1-fused gene from chromosome 1q, mRNA (cDNA clone [MAGE:2823316).

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gaaaaacct gaaggtgatg	geeceettga	geacageace	ggggagggt	tetetetee	300
cattgccage atccactect	Ecgaacegga	cttgctctaa	tttaaataa	tttcccattt	3.60
atcaccttgc cctcattgtc	ttccctctca	agececttee	ctcccacccc	attacattat	420
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Human mRNA for acetyl-coenzyme A transporter, complete cds.

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	_					

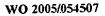


# Homo sapiens SDF2L1 mRNA for SDF2 like protein 1, complete cds.

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tattagaact	gctgctggcg	ctgttagtgc	cqqqcggtgg	tgccgccaag	accggtgcgg	120
				gcaccaccgc		180
				atcggtgacc		240
cot.cogacga	cacaaataac	tactqqcqqa	tecacaacaa	ctcggagggc	gggtgcccgt	300
acagatecee	gatacactac	gggcagggg	tgaggeteae	gcatgtgctt	acgggcaaga	360
acctocacac	gcaccacttc	ccqtcqccqc	totccaacaa	ccaggaggtg	agtgcctttg	420
gggaagacgg	cgagggggac	gacctggacc	tatggacagt	gcgctgctct	ggacagcact	480
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				ggtccacggc		600
ccaacacaca	caatacgtgg	aaggecatgg	aaggcatctt	catcaagcct	agtgtggagc	660
cctctgcagg	tcacgatgaa	ctctgagtgt	gtggatggat	gggtggatgg	agggtggcag	720
atagagata	tocagogcca	ctcttggcag	agactttggg	tttgtagggg	tecteaagtg	780
	taaaqaatqt			2 5525		810

Homo sapiens RTN2-A (RTN2) mRNA, complete cds.

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cgcagggatt	caactgcccg	ccgcccccgc	ccccagggcc	gctcagtctc	ggaaccacga	420
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gaggactctt	ccaccagcag	ctccaccccg	ctggaagacg	aagaacccca	agaacccaac	660
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gctaagatcc	gagctaaaat	cccagggacc	ggagccctgg	cctctgcagc	agccgcagtc	1740
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		cctgctggga				2040
		ggaggcgccg				2100
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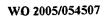
Homo sapiens cDNA: FLJ22209 fis, clone HRC01496.

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	gccggaagac	aaagttgaaa	aaactototo	ggactgggaa	cttatqaatq	atatcottca	180
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	aagaagaaga	tatcgttcat	aagactaaaa	atttatotat	ggaggaggaa	gactgaaact	420
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	actgtctggg	actgggaact	tatgaatgat	accyccaca	gaccaggag	ccaaagaaga	660
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	adday: cydd	atggaggagg	aagactgaaa	ctattaaga	gcccatggag	gaagaagaag	2040
	and de angle	, acggageage	gaatctgate	atgaagctgo	agtagaggaa	aaaaaaaaa	2100
	cagecaaaga	agagaaagaa			5 5 25		



Homo sapiens UDP-N-acetylglucosamine-2-epimerase mRNA, complete cds.

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	aaagctg cgggtttgtg				120
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	tcacctg atagatgact				240
atgactttga cat	taacacc aggctacaca	a caattgtgag	gggagaagat	gaggcagcca	300
	aggcctg gccctagtg				360
ctgatatcat gat	tgttcat ggagacagg	ttgatgccct	ggctctggcc	acatctgctg	420
	ccgaatc cttcacatt				480
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cagagcagca cct	gatatcc atgtgtgagg	g accatgatcg	catecttttg	gcaggctgcc	600
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	acagttg gttgcccate				960
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	ccttcag tttggtaaa				1140
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	gcatctc cctgtgtgg				1620
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	agcatac gcctctgga				1860
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	ccaaget gegaaactt				1980
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	tgctgcc agcatggtt				2220
	acatgga cettetete				2280
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Homo sapiens carcinoembryonic antigen 2a (CGM2) mRNA, complete cds.

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				tgctctccac		600
- cost cotto	tactoagocco	cacaaadaat	gacataggac	cctatgaatg	tgaaatacag	660
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yh42a11.rl Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:132380 5', mRNA sequence.

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geceeteegg						430
•						
Homo sapiens	immediate	early respon	nse 3, trans	script varia	ant short, m	RNA
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7f03b12.x1 NCI\_CGAP\_CLL1 Homo sapiens cDNA clone IMAGE:3293567 3', mRNA sequence.

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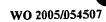
WO 2005/054507 PCT/GB2004/005078

human full-length cDNA 3-PRIME end of clone CS0DA009YG15 of NEUROBLASTOMA of Homo sapiens (human)  $\,$ 

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602288121F1 NIH\_MGC\_97 Homo sapiens cDNA clone IMAGE:4373861 5', mRNA sequence.

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cgaggccatc t	tttgttgga	gaaggcgtcg	gcgttggcgt	ttteccgagg	ttgggctgta	240
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acacggtgac c						945



Homo sapiens organic anion transporter polypeptide-related protein 1 (OATPRP1) mRNA, complete  $\operatorname{cds}$ .

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	aagcagcccc					360
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aaa						2763

# Homo sapiens cDNA: FLJ21243 fis, clone COL01164.

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	cagaacggga	gtcaactcta	atatatctag	aaggaagact	atatetogto	tagactaata	180
	tangetett	tagaagagtt	aacctgaaca	ctttgaggga	gagattattc	ttqccaqcaa	240
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	ttaggagace	tgaaaagtag	tectageagt	gtaaatatgt	ataattagag	ttttctaatt	600
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	gigicagacg	caccacactt	cagaaataga	gcagggattt	accottctt	tocttogaca	840
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	coctactttc	ttttttt	ttgataagat	ggatatcaaa	aatagttgct	gtgcaaaagt	960
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	tttttatatt	gaaaggagta	acctattata	tacaatctga	tttttaaaa	ttotaaacat	1560
	attetaactt	gettaceea	attitategeg	atattattat	ttaaaaaatq	aaaaaagcat	1620
	gtatgatett	ggcccacgc	ttttcattac	taactetata	aaatacacto	ttctttgtgt	1680
	atetgetaaa	gagetgteag	ctactactac	accettcaaa	agtatttgga	aacttaagat	1740
	actgtgtgtt	tattageeag	tagatteett	tetataatat	theatectat	aactgaagta	
	gaaccacact	thetarasa	tattaggaat	tetetaceaa	ctttgaataa	aatgaaaaat	1860
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	ttaaaaaaaa	aaaaaaaaa	•		•		

WO 2005/054507 PCT/GB2004/005078

ab38f03.s1 Stratagene HeLa cell s3 937216 Homo sapiens cDNA clone IMAGE:843101 3' similar to contains Alu repetitive element;, mRNA sequence.

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atctatttta	acatagatta	aaaatactgt	ttatatgaaa	attaagctta	aatacacgta	420
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### WO 2005/054507

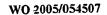
Homo sapiens KPL1 (KPL1) mRNA, complete cds.

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acceagata	ccatgatgtg	cagcccccag	agggccggag	ccgagatggc	ctgctgactg	240
traarctace	ggaaggggg	cqcctqcacc	tctqtgcgga	gaccaaggat	gatgccctag	300
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agregateta	ctaattctaa	qccctgggac	tcggagcact	gacccctgcg	cttggattgc	720
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ccactagaca	cccccaaaat	-ctgttataga	catttatgga	tacatttcct	ctaaacacaa	960
caggggacag	caaatacqac	ttcatttggc	ttcgagttcc	ccaggcgctg	tagacacaac	1020
atgaatcggg	ctctctqctc	teteettagg	gagctcgagt	cctggtgggg	agaacaggag	1080
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## WO 2005/054507

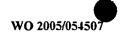
Homo sapiens carboxypeptidase, vitellogenic-like, transcript variant 2, mRNA (cDNA clone MGC:10029 IMAGE:3888647), complete cds.

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		aaaaaaaaa				1772



Homo sapiens teratocarcinoma-derived growth factor 1, mRNA (cDNA clone MGC:24110 IMAGE:4615416), complete cds.

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aaaaaaaa	_	•				1748
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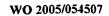


Homo sapiens lipase mRNA, complete cds.

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					-	1471

Homo sapiens v-fos FBJ murine osteosarcoma viral oncogene homolog, mRNA (cDNA clone MGC:11074 IMAGE:3688670), complete cds.

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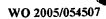


Homo sapiens endoplasmic reticulum lumenal Ca2+ binding protein grp78 mRNA, complete cds.

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	cccccaactg	gtgaagagga	tacagcagaa	aaagatgagt	tgtag		1965

Homo sapiens S100 calcium binding protein A2, mRNA (cDNA clone MGC:3847 IMAGE:3659591), complete cds.

ctccctcac	cccqqtccaq	gatgcccagt	-ccccacgaca	cctcccactt	cccactgtgg	·60
cctagataga	ctcaggggct	gcccttgacc	tggcctagag	ccctcccca	gctggtggtg	120
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	aaaaaaaaa					749



wa01c11.x1 NCI\_CGAP\_Kid11 Homo sapiens cDNA clone IMAGE:2296820 3', mRNA
sequence.

actteettea etagttaega caaaatttaa gaggaataae aaatacaaat tttet	gttaa 60
gaacggaaag gtgcaaacta gcagagtcaa tactggtaac cagaaggcac taatc	ccaaac 120
acataaattt caaaagctgg ttatattatg gaataccata tatactggcc tttgc	
tgggatttct gcaatagcaa taagcctcgt ttctgtttcc aattataaca acaaa	aaagat 240
gagttactaa tgaacattcc acttacagaa gtctaggcta tgttgataaa ttgaa	aaactt 300
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ggttgtcgaa ttcactgtaa tatgtattcc tcttattgat agagctctga atgta	aaacaa 480
ccta	484

Human 150 kDa oxygen-regulated protein ORP150 mRNA, complete cds.

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ttotgaaggg	cgcgggtggg	gggcgctgcc	ggcctcgtgg	gtacgttcgt	gccgcgtctg	60
teccagaget	ggggccgcag	gagcggaggc	aagaggggca	ctatggcaga	caaagttagg	120
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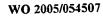
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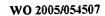
## Homo sapiens s-CaBP1 (CABP1) mRNA, complete cds.

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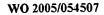
Homo sapiens cDNA FLJ12397 fis, clone MAMMA1002769, weakly similar to Homo sapiens cell cycle progression restoration 8 protein (CPR8) mRNA.

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Homo sapiens cDNA FLJ13465 fis, clone PLACE1003493, weakly similar to ENDOTHELIAL CELL MULTIMERIN PRECURSOR.

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### PCT/GB2004/005078

### WO 2005/054507

Homo sapiens heat shock 27kDa protein 1, mRNA (cDNA clone MGC:8509 IMAGE:2822325), complete cds.

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### Homo sapiens carcinoembryonic antigen (CGM2) mRNA, complete cds.

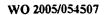
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tctataccct	acacgttata	aaagaaaatc	ttgtgaatga	agaagtaacc	agacaattct	420
acgtattctc	ggagccaccc	aagccctcca	tcaccagcaa	caacttcaat	ccggtggaga	. 480
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acccagtggg	tgccagccgc	agtgacccag	tcaccctgaa	tgtccgctat	gagtcagtac	720
aagcaagttc	acctgacctc	tcagctggga	ccgctgtcag	catcatgatt	ggagtactgg	780
ctgggatggc	tctgatatag	cagccttggt	g			. 811

Homo sapiens keratin 7, mRNA (cDNA clone MGC:3625 IMAGE:3610347), complete cds.

				costatacest	ccacttcacc	-60
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teceeggtat	tcacctcgcg	ctcagecgec	rrcregggee	geggegeeda	ggcgcgcccg	180
agctccgctc	gccccggcgg	ccttggcagc	agcagcctct	acggccccgg	egeeregegg	
ccgcgcgtgg	eegtgegete	tgcctatggg	ggcccggtgg	gcgccggcat	ccgcgaggtc	240
accattaacc	agagcctgct	ggccccgctg	cggctggacg	ccgacccctc	ccccagcgg	300
gtgcgccagg	aggagagcga	gcagatcaag	acceteaaca	acaagtttgc	ctccttcatc	360
gacaaggtgc	ggtttctgga	gcagcagaac	aagctgctgg	agaccaagtg	gacgctgctg	420
caggagcaga	agtcggccaa	gagcagccgc	ctcccagaca	tctttgaggc	ccagattgct	480
gaccttcggg	gtcagcttga	ggcactgcag	gtggatgggg	gccgcctgga	ggcggagctg	540
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gagatttcag	agatgaaccg	ggccatccag	aggctgcagg	ctgagatcga	caacatcaag	· 1020
aaccagcgtg	ccaaqttgga	ggccgccatt	gccgaggctg	aggagcgtgg	ggagctggcg	1080
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atotcagaat	agettecaat	aaagcagcct	cattetgagg	cctgagtgat	ccacgtgaaa	1620
aaaaaaaaaa	алалалала	aaaaaaaaa	aaaaaaaaa	aaaaaaaa		1668
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~						

Homo sapiens hxCT mRNA for cystine/glutamate exchanger, complete cds.

cctgtgaaca	ctatagcgct	gagagagaca	gtctgaaagc	agaggaagac	atcgatcagt	60
aacaccaaga	gacaccaaag	ttgaaagttt	tgttttcttt	ccctctgttt	tatttttccc	120
ccgtgtgtcc	ctactatggt	cagaaagcct	gttgtgtcca	ccatctccaa	aggaggttac	180
ctgcagggaa	atgttaacgg	gaggctgcct	tccctgggca	acaaggagcc	acctgggcag	240
gagaaagtgc	agctgaagag	gaaagtcact	ttactgaggg	gagtctccat	tatcattggc	300
accatcattg	gagcaggaat	cttcatctct	cctaagggcg	tgctccagaa	cacgggcagc.	
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tcttatgctg	aattgggaac	aactataaag	aaatctggag	gtcattacac	atatattttg	480
gaagtctttg	gtccattacc	agcttttgta	cgagtctggg	tggaactcct	cataatacgc	540
cctgcagcta	ctgctgtgat	atccctggca	tttggacgct	acattctgga	accattttt	600
attcaatgtg	aaatccctga	acttgcgatc	aagctcatta	cagctgtggg	cataactgta	660
gtgatggtcc	taaatagcat	gagtgtcagc	tggagcgccc	ggatccagat	tttcttaacc	720
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					atccatggcc	
attgtcacca	ttggctatgt	gctgacaaat	gtggcctact	ttacgaccat	taatgctgag	1020
					gggaaatttc	1080
tcattagcag	ttccgatctt	tgttgccctc	tcctgctttg	gctccatgaa	cggtggtgtg	1140
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acaatgataa	tgctcttctc	tggagacctc	gacagtcttt	tgaatttcct	cagttttgcc	1320
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atcactctga	ctggagtccc	tgcgtattat	ctctttatta	tatgggacaa	gaaacccagg	1560
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aataaaatgg	attcttctat	agctaaatga	gttccctctg	gggagagttc	tggtactgca	1680
atcacaatgc	cagatggtgt	ttatgggcta	tttgtgtaag	taagtggtaa	gatgctatga	1740
agtaagtgtg						<sup>-</sup> 1800
aaattttggt	gcaatatgat	gtcattcaac	tttgcattga	attgaatttt	ggttgtattt	1860
atatgtatta	tacctgtcac	gcttctagtt	gcttcaacca	ttttataacc	atttttgtac	1920
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taaaaaaaaa	aaaaaaaaa					2000

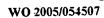


Homo sapiens eukaryotic translation elongation factor 1 alpha 2, mRNA (cDNA clone MGC:8362 IMAGE:2819899), complete cds.

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ccqqaaagtc	caccaccacg	ggccacctca	tctacaaatg	cggaggtatt	gacaaaagga	180
ccattgagaa	gttcgagaag	gaggcggctg	agatggggaa	gggatccttc	aagtatgcct	240
gggtgctgga	caagctgaag	gcggagcgtg	agcgcggcat	.caccatcgac	atctccctct	300
ggaagttcga	gaccaccaag	tactacatca	ccatcatcga	tgecccegge	caccgcgact	3.60
tcatcaagaa	catgatcacg	ggtacatece	aggcggactg	cgcagtgctg	atcgtggcgg	420
caaacataaa	cgagttcgag	gcgggcatct	ccaagaatgg	gcagacgcgg	gagcatgccc	480
tgctggccta	cacgctgggt	gtgaagcagc	tcatcgtggg	cgtgaacaaa	atggactcca	-540
cagageegge	ctacagcgag	aagcgctacg	acgagatcgt	caaggaagtc	agcgcctaca	600
tcaaqaaqat	cggctacaac	ccggccaccg	tgccctttgt	gcccatctcc	ggctggcacg	660
qtqacaacat	gctggagccc	tcccccaaca	tgccgtggtt	caagggctgg	aaggtggagc	720
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ccacqcgccc	cacggacaag	cccctgcgcc	tgccgctgca	ggacgtgtac	aagattggcg	840
gcattggcac	ggtgcccgtg	ggccgggtgg	agaccggcat	cctgcggccg	ggcatggtgg	900
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accegectet	cggccgcttc	gccgtgcgcg	acatgaggca	gacggtggcc	gtaggcgtca	1380
tcaaqaacgt	ggagaagaag	agcggcggcg	ccggcaaggt	caccaagtcg	gcgcagaagg	1440
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cqctccgaac	cccggcccgg	cccccgcccc	geeceegeee	cgcgcgccgc	teeggegeee	<b>15</b> 60
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gcttccgcgc	ccagcgctcg	ccacgctcag	tgcccgtttt	accaataaac	tgagcgaccc	1740
caaaaaaaaa	aaaaaaaaa	aaaaaaaaa	aaaaaaaaa	a		1781



3' end, expressed in whole embryo mainly h	head.
ggagtgcag tggcacaatc tcggctcact ccctgcttc agcctcctga gtagctggaa 120 ctttgtcta ttttttttt ttagtagaga 180 cgaactcct gactgacctc agacgaacca 240 caggcgtta gccaccatac ctggcctgct 300 atctgagag caatgtgtta atatgaatat 360 ccctacttg tataggtgga tgaataaaga 420 cgaatgccag aaggncagtc tcatgcacct 480 ctaaagctt gngtggcaag taccactgtg 540 cggtc	
cetgette agectectga gtagetggaa 120 ctttgteta ttttttttt ttagtagaga 180 cgaactect gactgacete agacgaacca 240 caggegtta gecaccatac etggeetget 300 atetgagag caatgtgtta atatgaatat 360 cectacttg tataggtgga tgaataaaga 420 cgaatgecag aaggneagte teatgeacet 480 cttaaagett gngtggeaag taccactgtg 540	



Homo sapiens MDG1 mRNA, complete cds.

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accoagatta	agatacatac	cagctccggg	aggccgcggt	gaggggccgg	gcccaagctg	. 120
accaracter	ccatcatca	gggtcgccag	cqcctcaqct	ctgtggagga	gcagcagtag	180
teggggggg	caggatatta	gaaatggcta	ctccccagtc	aattttcatc	tttgcaatct	240
ccattttaat	gataacagaa	ttaattctgg	cctcaaaaaq	ctactatgat	atcttaggtg	300
toccasaato	ggcatcagag	cgccaaatca	agaaggcctt	tcacaagttg	gccatgaagt	360
accaccetoa	caaaaataag	ageccggatg	ctgaagcaaa	attcagagag	attgcagaag	420
catatosasc	actctcagat	gctaatagac	gaaaagagta	tgatacactt	ggacacagtg	480
catatgatac	tootaaagga	caaagaggta	gtggaagttc	ttttgagcag	tcatttaact	540
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ccaagaageg	ccaacaattt	tettttggag	gtggattatt	tgatgacatg	tttgaagata	720
tggagaaaat	ottttcttt.	agtggttttg	actctaccaa	tcagcataca	gtacagactg	780
nggagaaaat	tratoratet	agcaagcact	gcaggactgt	cactcaacga	agaggaaata	840
teettactac	atacactgac	tgttcaggac	agtagttett	attctattct	cactaaatcc	900
angtogttog	ctcttcctca	ttatctttga	toctaaacaa	ttttctgtga	actattttga	960
aactggtega	atttcacttt	:aaacaatttg	atatagetat	taaatatatt	taagggtttt	1020
tettttt	accedecee	cattcaacga	gtagacaaaa	toctaattat	ttccctgatt	1080
accepte	ctttaaaaaa	cacotaattt	tacctaatac	tttttctcta	cctgcccttg	1140
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ggeteactaa	ttatagattt	aaattototo	aacctaatga	tttttqcaqt	gaaaccttta	1260
chacttors	attacatatt	ctatgacate	totoacttoc	gttgcagagt	gtacatgaaa	1320
CLAACICAAA	geegeatgee	otaaaggaga	acagtatett	ggttaattgc	tactgaaagg	1380
Cigiacaacc	gagecatte	tatttaccac	agggetatae	ctttctacaq	tagaactggg	1440
ctgagaaagg	tacttttatt	geceatagte	atttaggetg	gaaaaaagtt	gaaaacttaa	1500
graaaggaaa	cggcccacc	gttatgtgtt	tagttccagc	ctaaaaatqa	ttttgtagtg	1560
cgaaacaccg	acctacttac	atacctttt	catatttctt	tettagttgt	tggcactctt	1620
cegaaaceae	agccacccac	atastectat	gtgtgtagtt	tatcctctct	ctcatcttta	1680
aggicitagi	argyartrac	teattetet	totaaaacca	gccagtaatt	tctgtgcaac	1740
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cttactatgt	guaductu	tttccacatt	atactccata	tgagtattaa	tcctatggat	1860
cattettea	gerergeace	catacaacat	tatatataaa	agaaatataa	atatttacaa	1920
	acaagigice	Catacaacat	-3-4-3-343	-3		1929
cctgaaaaa						



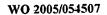
Homo sapiens prostate stem cell antigen (PSCA) mRNA, complete cds.

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	agggagaggc	agtgaccatg	aaggeogege	cetecesace	ccadataaac	aacgaggact	120
	tgcagccagg	cactgccctg	ctgtgctact	cctgcaaage	ataascaca	-cacat.ccaca	180
	gcctgcaggt	ggagaactgc	acccagctgg	gggagcagcg	ceggacegeg	catcactcac	240
	cagttggcct	cctgaccgtc	atcagcaaag	gctgcagctt	gaactgegeg	teenageee	300
	aggactact a	cataggcaag	aagaacatca	cgtgctgtga	caccgaetty	Lycaacycca	360
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	tactata	gggacccggc	cacctatacc	ctctqqqqqq	ccccgccgca	gcccacaccg	420
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	ccnaaccctg	accutcuat	atacccctc	caaccotttn	tattantatt	tccatggccc	660
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	acaggcaatc	aggagggccc	agtaaaggct	gagatgaagt	ggactgagta	gaactggagg	900
	agaggetta	acotoaotto	ctaggagttt	ccagagatgg	ggccryyayy	cccggaggaa	960
	ggggcaggc	ctcacatttg	tggggntccc	gaatggcagc	ctgagcacag	cgtaggccct	990
•	taataaacac	ctattagata	agccaaaaaa				330



Human arginine-rich protein (ARP) gene, complete cds.

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ctagggctca gacaccacca	gccaatgagg	gagggcacgc	ggageege	ccaccastaa	180
toctosc castodogas	ataacatata	qqaqqquy	999900000	CC30044033	240
	ccacttccaq.	acaatacaac	9-99-999-9	cggcccagc	300
estacococ occacococa	caggaggagg	aqqaqqayya	Lyayyayyac	9499499469	
+	antacacata	actetaageg	rgergeeggg	cageegggeg	. 360
ctgcggccacgc aggagacagc	agettgtatt	tcttatctqq	gaagatttta	ccaggacctc	420
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cgggaagcaa gaggcaaaga	togatta	toctactata	teggggeeae	agatgatgca	540
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aatgaactga tgcctaaata	tacccccaag	qcaqccagtg	caccgaccga	cttgtagttt	840
getcaatete tgttgcaeet	паппппппппппппппппппппппппппппппппппппп	aaacaqttca	actgcttact	cccaaaacag	900
cctttttgta atttatttt	taantogoot.	cctgacaata	ctqtatcaga	tgtgaagcct	960
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ttgctggtgt actctaggac	ttcaaagtgt	gcccgggacc	CCCCCCCCC	-5	1103
tttctagctg tcaaaaaaaa	aaa	•			



Homo sapiens interleukin 11 receptor, alpha, transcript variant 1, mRNA (cDNA clone MGC:2146 IMAGE:3502059), complete cds.

oggaactata	actaataaaa	ggaagtccta	gaggetatog	acactctgct	actaggatca	60
				ggtggccgtg		120
				cccaggggtc	-	180
				tgccggggac		240
				ctctgggcta		300
				catctgccag		360
				tccagcccgc		420
				gagtcccagc		480
				agtcctagga		540
-	-			ggatccccta		600
				gattaatgtg		660
	7			gcagagcatc		720
				ccccgacgc		780
				cctgctcaag		840
				gccagctgga		900
				agtcagtgcc		960.
						1020
				gggaactccg		1020
				gcagccagag		1140
	-			acaccctcgg		
450			<del>-</del>	gggaatcctt		1200
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				ccacctataa		1380
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				atttgcagct		1500
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tgtatgtagg	tgcctgggga	gtgtgtgtgg	gteettgget	cttggccttt	eccettgeag	1680
				ggaaaaaaaa		1740
		aaaaaaaaa				1783

# Homo sapiens mRNA; cDNA DKFZp564O2071 (from clone DKFZp564O2071); complete cds

gggggcagca	ggccaagggg	gaggtgcgag	cgtggacctg	ggacgggtct	gggcggctct	:60
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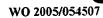
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Homo sapiens collagen alpha 3 type IX (COL9A3) mRNA, complete cds.

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### Homo sapiens cDNA FLJ20113 fis, clone COL05437.

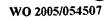
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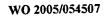
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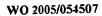
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## Homo sapiens calcium binding protein 1 (calbrain), mRNA (cDNA clone

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aaaaaaaa						1868



### Homo sapiens TNNT1 gene, exons 1-11 (and joined CDS)

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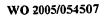
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WO 2005/054507 PCT/GB2004/005078

Homo sapiens negative growth-regulatory protein MyD118 (MYD118) mRNA, complete cds.

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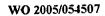


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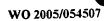
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### Human 14 kd lectin mRNA, complete cds.

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Homo sapiens monocarboxylate transporter 2 (MCT2) mRNA, complete cds.

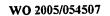
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# H.sapiens mRNA for gonadotropin-releasing hormone receptor, splice variant.

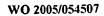
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rogatattt	LULULULULUA					

Homo sapiens midline 1 (MID1) mRNA, complete cds.

cttttttgg	ccgggccgca	tgaatccggc -	cagcccaccc	tgcttgaagg	acctacaggt	60
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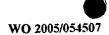


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agagttgtaa	gaccaaaaaa	aaaaaaaaa	aaaaa			3575



 ${\hbox{\tt Homo sapiens IL-1 receptor accessory protein $\tt mRNA$, complete $\tt cds.}$ 

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### Homo sapiens clone FLB0708 mRNA sequence.

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